

# FUS Antibody

Rabbit Polyclonal

Antigen Affinity Purified

Protein ID P35637

Catalog No. A300-294A

GeneID 2521

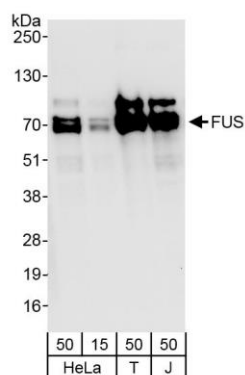
Lot No. A300-294A-2



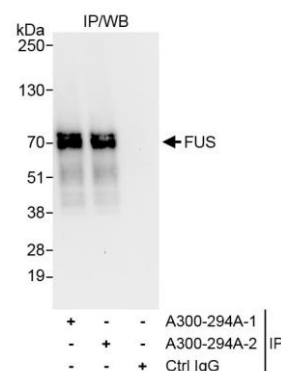
|                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |              |                     |                     |                     |                      |                                                                                                           |
|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|---------------------|---------------------|---------------------|----------------------|-----------------------------------------------------------------------------------------------------------|
| <b>APPLICATIONS</b>          | WB, IP, IHC                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |              |                     |                     |                     |                      |                                                                                                           |
| <b>SPECIES REACTIVITY</b>    | Human, Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |              |                     |                     |                     |                      |                                                                                                           |
| <b>PRESUMED REACTIVITY</b>   | Based on 100% sequence identity, this antibody is predicted to react with Bovine                                                                                                                                                                                                                                                                                                                                                                                                          |              |                     |                     |                     |                      |                                                                                                           |
| <b>AMOUNT</b>                | 100 µl                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |              |                     |                     |                     |                      |                                                                                                           |
| <b>CONCENTRATION</b>         | 1000 µg/ml                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |              |                     |                     |                     |                      |                                                                                                           |
| <b>STORAGE/SHELF LIFE</b>    | 2 – 8° C / 1 year from date of receipt                                                                                                                                                                                                                                                                                                                                                                                                                                                    |              |                     |                     |                     |                      |                                                                                                           |
| <b>PHYSICAL STATE</b>        | Liquid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |              |                     |                     |                     |                      |                                                                                                           |
| <b>BUFFER</b>                | Tris-citrate/phosphate buffer, pH 7 to 8 containing 0.09% Sodium Azide                                                                                                                                                                                                                                                                                                                                                                                                                    |              |                     |                     |                     |                      |                                                                                                           |
| <b>ISOTYPE</b>               | IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |              |                     |                     |                     |                      |                                                                                                           |
| <b>ORIGIN</b>                | USA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |              |                     |                     |                     |                      |                                                                                                           |
| <b>PRODUCTION PROCEDURES</b> | <p>Antibody was affinity purified using an epitope specific to FUS immobilized on solid support.</p> <p>The epitope recognized by A300-294A maps to a region between residue 500 and the C-terminus (residue 526) of human fusion (involved in t(12;16) in malignant liposarcoma) using the numbering given in SwissProt entry P35637 (GeneID 2521).</p> <p>Immunoglobulin concentration was determined by extinction coefficient: absorbance at 280 nm of 1.4 equals 1.0 mg of IgG.</p>  |              |                     |                     |                     |                      |                                                                                                           |
| <b>APPLICATIONS</b>          | <p>Centrifuge tube to remove product from lid. Optimal working dilutions should be determined experimentally by the investigator. Prepare working dilution immediately before use.</p> <table><tr><td>Western Blot</td><td>1:10,000 – 1:50,000</td></tr><tr><td>Immunoprecipitation</td><td>2 – 10 µg/mg lysate</td></tr><tr><td>Immunohistochemistry</td><td>1:1,000 – 1:10,000. Epitope retrieval with citrate buffer pH 6.0 is recommended for FFPE tissue sections.</td></tr></table> | Western Blot | 1:10,000 – 1:50,000 | Immunoprecipitation | 2 – 10 µg/mg lysate | Immunohistochemistry | 1:1,000 – 1:10,000. Epitope retrieval with citrate buffer pH 6.0 is recommended for FFPE tissue sections. |
| Western Blot                 | 1:10,000 – 1:50,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |              |                     |                     |                     |                      |                                                                                                           |
| Immunoprecipitation          | 2 – 10 µg/mg lysate                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |              |                     |                     |                     |                      |                                                                                                           |
| Immunohistochemistry         | 1:1,000 – 1:10,000. Epitope retrieval with citrate buffer pH 6.0 is recommended for FFPE tissue sections.                                                                                                                                                                                                                                                                                                                                                                                 |              |                     |                     |                     |                      |                                                                                                           |
| <b>APPLICATION NOTES</b>     | <p>Western blot of immunoprecipitates performed using Normal Pig Serum (Cat. No. S100-020), Goat anti-Rabbit Light Chain HRP Conjugate (Cat. No. A120-113P) and 4-20% SDS-PAGE (link to IP-western blot protocol in Additional Info section below).</p> <p>Western blot of lysates performed using standard western blot reagents and 4-20% SDS-PAGE.</p>                                                                                                                                 |              |                     |                     |                     |                      |                                                                                                           |
| <b>IHC HUMAN CONTROLS</b>    | Breast Carcinoma, Colon Carcinoma, Ovarian Carcinoma, Prostate Carcinoma, Skin Squamous Cell Carcinoma, Stomach Adenocarcinoma, Testicular Seminoma                                                                                                                                                                                                                                                                                                                                       |              |                     |                     |                     |                      |                                                                                                           |
| <b>IHC MOUSE CONTROLS</b>    | Renal Cell Carcinoma, Teratoma                                                                                                                                                                                                                                                                                                                                                                                                                                                            |              |                     |                     |                     |                      |                                                                                                           |
| <b>ADDITIONAL INFO</b>       | <p><a href="https://www.bethyl.com/product/A300-294A">https://www.bethyl.com/product/A300-294A</a></p> <p>Use the link above to view SDS, a current list of citations, and other product specific information. IP-western blot protocol <a href="https://www.bethyl.com/content/protocol_IP_WB">https://www.bethyl.com/content/protocol_IP_WB</a></p>                                                                                                                                     |              |                     |                     |                     |                      |                                                                                                           |

This document certifies that this product has met all of the quality control standards defined by Bethyl Laboratories, Inc.  
Eric McIntush, PhD | Chief Scientific Officer

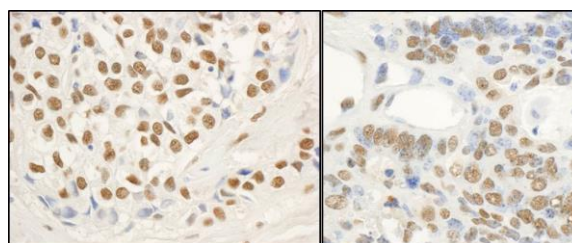
Date: October 21, 2019



**Detection of human FUS by western blot.** *Samples:* Whole cell lysate from HeLa (15 and 50 µg); HEK293T (T; 50 µg) and Jurkat (J; 50 µg) cells prepared using NETN lysis buffer. *Antibodies:* Affinity purified rabbit anti-FUS antibody A300-294A (lot A300-294A-2) used for WB at 0.1 µg/ml. *Detection:* Chemiluminescence with exposure time of 3 seconds.



**Detection of human FUS by western blot of immunoprecipitates.** *Samples:* Whole cell lysate (1.0 mg for IP, 20% of IP loaded) from HeLa cells prepared using NETN lysis buffer. *Antibodies:* Affinity purified rabbit anti-FUS antibody A300-294A (lot A300-294A-2) used for IP at 6 µg/mg lysate. FUS was also immunoprecipitated by a previous lot of this antibody (lot A300-294A-1). For blotting immunoprecipitated FUS, A300-294A was used at 0.1 µg/ml. *Detection:* Chemiluminescence with exposure time of 10 seconds.



**Detection of human and mouse FUS by immunohistochemistry.** *Sample:* FFPE section of human breast carcinoma (left) and mouse teratoma (right). *Antibody:* Affinity purified rabbit anti-FUS (Cat. No. A300-294A Lot2) used at a dilution of 1:5,000 (0.2µg/ml) and 1:1,000 (1µg/ml). *Detection:* DAB