FUS Antibody

Rabbit Polyclonal

Antigen Affinity Purified

Catalog No.   A300-293A

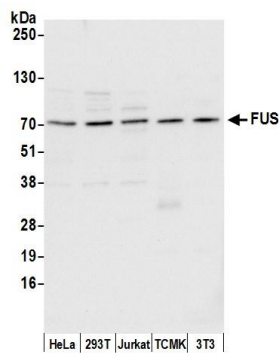Lot No.   A300-293A-5

Protein ID   P35637

GeneID   2521

APPLICATIONS	WB, IP, IHC
SPECIES REACTIVITY	Human, Mouse
PRESUMED REACTIVITY	Based on 100% sequence identity, this antibody is predicted to react with Bovine
AMOUNT	100 µl
CONCENTRATION	1000 µg/ml
STORAGE/SHELF LIFE	2 – 8° C / 1 year from date of receipt
PHYSICAL STATE	Liquid
BUFFER	Tris-citrate/phosphate buffer, pH 7 to 8 containing 0.09% Sodium Azide
ISOTYPE	IgG
ORIGIN	USA

PRODUCTION PROCEDURES

Antibody was affinity purified using an epitope specific to FUS immobilized on solid support.

The epitope recognized by A300-293A maps to a region between residues 400 and 450 of human fusion (involved in t(12;16) in malignant liposarcoma) using the numbering given in SwissProt entry P35637 (GeneID 2521).

Immunoglobulin concentration was determined by extinction coefficient: absorbance at 280 nm of 1.4 equals 1.0 mg of IgG.

APPLICATIONS

Centrifuge tube to remove product from lid. Optimal working dilutions should be determined experimentally by the investigator. Prepare working dilution immediately before use.

Western Blot	1:2,000 – 1:10,000
Immunoprecipitation	2 – 10 µg/mg lysate
Immunohistochemistry	1:1,000 – 1:5,000. Epitope retrieval with citrate buffer pH 6.0 is recommended for FFPE tissue sections.

APPLICATION NOTES

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).

Western blot of lysates performed using standard western blot reagents and 4-20% SDS-PAGE.

IHC HUMAN CONTROLS

Breast Carcinoma, Colon Carcinoma, Ovarian Carcinoma, Prostate Carcinoma, Skin Squamous Cell Carcinoma

IHC MOUSE CONTROLS

Renal Cell Carcinoma, Squamous Cell Carcinoma, Teratoma

ADDITIONAL INFO

https://www.bethyl.com/product/A300-293A
Use the link above to view SDS, a current list of citations, and other product specific information.
IP-western blot protocol: https://www.bethyl.com/content/protocol_IP_WB

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: June 21, 2019

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Detection of human and mouse FUS by western blot.
Samples: Whole cell lysate (15 μg) from HeLa, HEK293T, Jurkat, mouse TCMK–1, and mouse NIH 3T3 cells prepared using NETN lysis buffer. *Antibody:* Affinity purified rabbit anti–FUS antibody A300–293A (lot A300–293A–5) used for WB at 0.1 μg/ml. *Detection:* Chemiluminescence with an exposure time of 3 seconds.
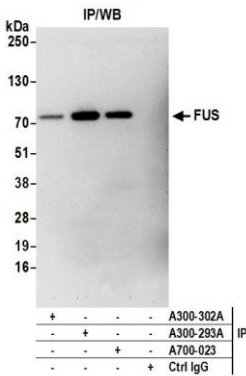
Detection of human FUS by western blot of immunoprecipitates. *Samples:* Whole cell lysate (1.0 mg per IP reaction; 20% of IP loaded) from HEK293T cells prepared using NETN lysis buffer. *Antibodies:* Affinity purified rabbit anti–FUS antibody A300–293A (lot A300–293A–5) used for IP at 3 μg per reaction. FUS was also immunoprecipitated by rabbit anti–FUS recombinant monoclonal antibody [BLR023E] (A700–023) and rabbit anti–FUS antibody A300–302A. For blotting immunoprecipitated FUS, A700–023 was used at 1:1000. *Detection:* Chemiluminescence with an exposure time time of 3 minutes.
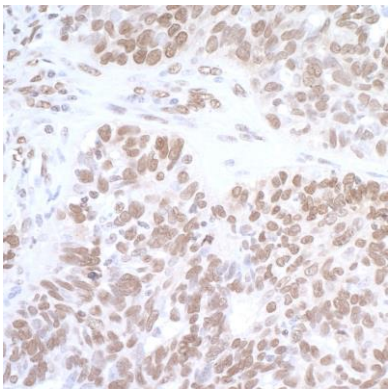
Detection of human FUS by immunohistochemistry.
Sample: FFPE section of human ovarian carcinoma. *Antibody:* Affinity purified rabbit anti–FUS (Cat. No. A300–293A Lot5) used at of 1:5,000 (0.2μg/ml). *Detection:* DAB
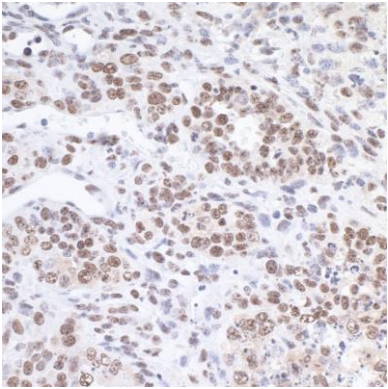
Detection of mouse FUS by immunohistochemistry.
Sample: FFPE section of mouse teratoma *Antibody:* Affinity purified rabbit anti–FUS (Cat. No. A300–293A Lot5) used at 1:5,000 (0.2μg/ml). *Detection:* DAB

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