

# CD45 Antibody

Rabbit Polyclonal

Antigen Affinity Purified

Protein ID P08575.2

Catalog No. A304-376A

GeneID 5788

Lot No. A304-376A-1



|                              |  |
|------------------------------|--|
| <b>APPLICATIONS</b>          | WB, IP, IHC, ICC-IF  |
| <b>SPECIES REACTIVITY</b>    | Human  |
| <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> | Antibody was affinity purified using an epitope specific to CD45 immobilized on solid support. |

The epitope recognized by A304-376A maps to a region between residue 1254 to 1304 of human CD45 Molecule using the numbering given in entry P08575.2 (GeneID 5788).

Antibody 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 - 1:10,000. Epitope retrieval with citrate buffer pH 6.0 is recommended for FFPE tissue sections.   |
| Immunofluorescence (ICC) | 1:1,000 - 1:5,000. Acetone or Formaldehyde fixation is recommended. Permeabilization with Triton-X 100 is recommended for formaldehyde-fixed cells. |

**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 4-8% SDS-PAGE (link to IP-western blot protocol in Additional Info section below).

Western blot of lysates performed using standard western blot reagents and 4-8% SDS-PAGE.

**IHC HUMAN CONTROLS** Jurkat Cells, Ramos Cells

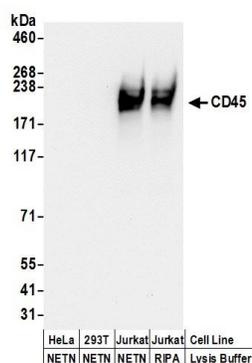
**ADDITIONAL INFO** <https://www.bethyl.com/product/A304-376A>

Use the link above to view SDS, a current list of citations, and other product specific information.

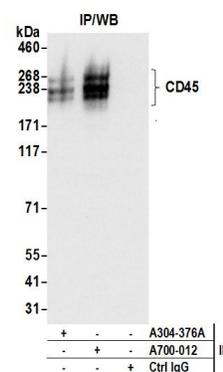
IP-western blot protocol: [https://www.bethyl.com/content/protocol\\_IP\\_WB](https://www.bethyl.com/content/protocol_IP_WB)

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

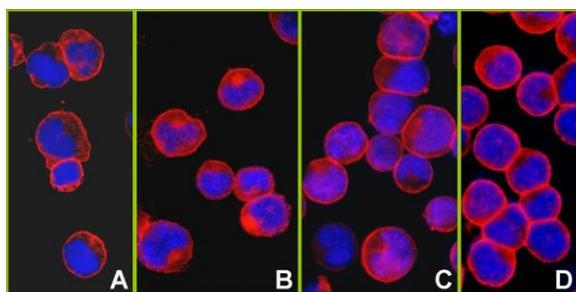
Date: June 21, 2019



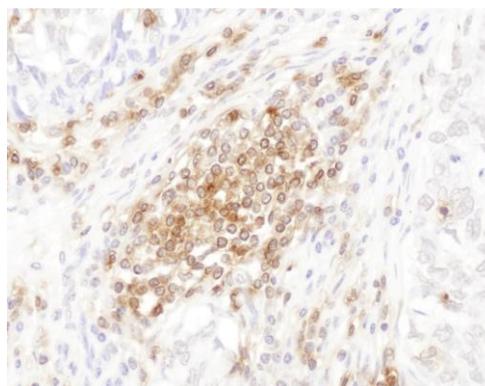
**Detection of human CD45 by western blot.** *Samples:* Whole cell lysate (50 µg) prepared using NETN or RIPA buffer from HeLa, HEK293T, and Jurkat cells. *Antibodies:* Affinity purified rabbit anti-CD45 antibody A304-376A (lot A304-376A-1) used for WB at 0.1 µg/ml. *Detection:* Chemiluminescence with an exposure time of 30 seconds.



**Detection of human CD45 by western blot of immunoprecipitates.** *Samples:* Whole cell lysate (0.5 or 1.0 mg per IP reaction; 20% of IP loaded) prepared using NETN buffer from Jurkat cells. *Antibodies:* Affinity purified rabbit anti-CD45 antibody A304-376A (lot A304-376A-1) used for IP at 6 µg per reaction. CD45 was also immunoprecipitated by rabbit anti-CD45 recombinant monoclonal antibody [BL-178-12C7] (A700-012). For blotting immunoprecipitated CD45, A700-012 was used at 1:1000. *Detection:* Chemiluminescence with an exposure time of 3 seconds.



**Detection of human CD45 by immunocytochemistry.** *Samples:* A: Acetone-fixed Jurkat cells, B: Formaldehyde-fixed Jurkat cells, C: Acetone-fixed Ramos cells, and D: Formaldehyde-fixed Ramos cells. *Antibody:* Affinity purified rabbit anti-CD45 (Cat. No. A304-376A Lot1) used at a dilution of 1:1,000 (1 µg/ml). *Detection:* Red-fluorescent goat anti-rabbit IgG cross-adsorbed Antibody DyLight® 594 Conjugated (Cat. No. A120-201D4) used at a dilution of 1:100.



**Detection of human CD45 by immunohistochemistry.** *Sample:* FFPE section of human lung cancer infiltrate. *Antibody:* Affinity purified rabbit anti-CD45 (Cat. No. A304-376A Lot1) used at a dilution of 1:5,000 (0.2 µg/ml). *Detection:* DAB