

# CD45 Antibody

Rabbit Polyclonal

Antigen Affinity Purified	RefSeq ID	NP_563578.2
Catalog No. A304-376A	Uniprot ID	P08575
Lot No. 2	GeneID	5788

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<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).

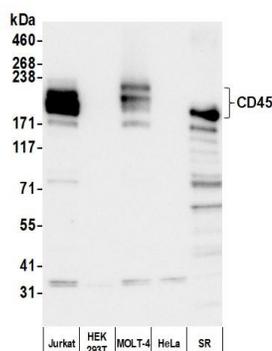
Immunoglobulin concentration was determined using Beer's Law where 1mg/mL IgG has an A280 of 1.4.

<b>APPLICATIONS</b>	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 1:2000 – 1:10,000
	Immunoprecipitation 6 µg/mg lysate
	Immunohistochemistry 1:1,000 to 1:5,000. Epitope retrieval with citrate buffer pH6.0 is recommended for FFPE tissue sections.
	Immunofluorescence (ICC) 1:1000 – 1:5000. Acetone or Formaldehyde fixation is recommended. Permeabilization with Triton-X 100 is recommended for formaldehyde-fixed cells.

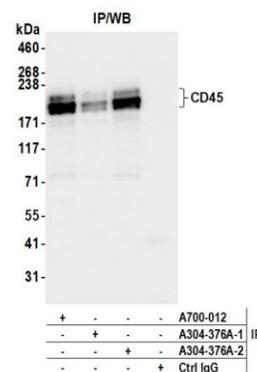
**IHC HUMAN CONTROLS** Tumor-infiltrating Lymphocytes, Jurkat Cells, Ramos Cells

**ADDITIONAL INFO** <https://www.fortislife.com/p/A304-376A>  
Use the link above to view SDS, a current list of citations, and other product specific information.

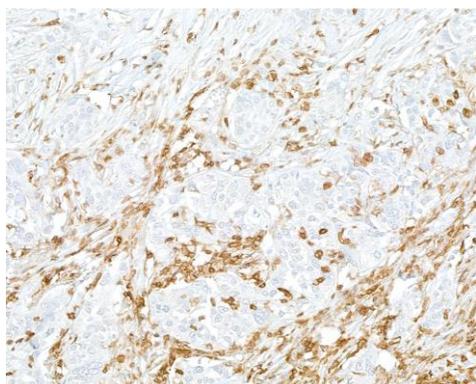
This document certifies that this product has met all of the quality control standards defined by Bethyl Laboratories, Inc.  
Michael Spencer, PhD Date: February 8, 2024



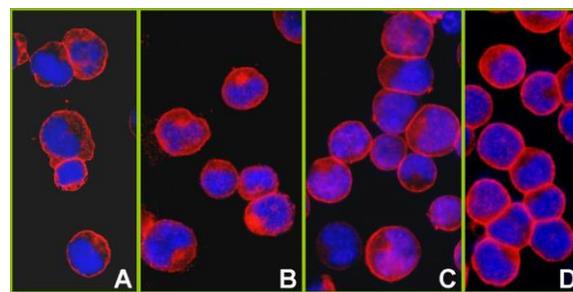
**Detection of human CD45 by western blot.** *Samples:* Whole cell lysate (10  $\mu$ g) from Jurkat, HEK293T, MOLT-4, HeLa, and SR cells prepared using NETN lysis buffer. *Antibody:* Affinity purified rabbit anti-CD45 antibody (A304-376A lot 2) used for WB at 0.1  $\mu$ g/ml. *Detection:* Chemiluminescence with an exposure time of 10 seconds.



**Detection of human CD45 by western blot of immunoprecipitates.** *Samples:* Whole cell lysate (1 mg per IP; 5% of IP loaded) from Jurkat cells prepared using NETN lysis buffer. *Antibodies:* Affinity purified rabbit anti-CD45 antibody (A304-376A lot 2) used for IP at 6  $\mu$ g per reaction. CD45 was also immunoprecipitated by a previous lot of this antibody (A304-376A lot 1) and a second antibody against a different epitope of CD45 (A700-012). For blotting immunoprecipitated CD45, A304-376A was used at 0.1  $\mu$ g/ml. *Detection:* Chemiluminescence with an exposure time of 3 seconds.



**Detection of human CD45 by immunohistochemistry.** *Sample:* FFPE section of human breast carcinoma infiltrate. *Antibody:* Affinity purified rabbit anti-CD45 (A304-376A) used at a dilution of 1:5,000 (0.2  $\mu$ g/ml). *Detection:* DAB



**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) used at a dilution of 1:1,000 (1  $\mu$ g/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.