

CD45 Recombinant Monoclonal Antibody [BL-178-12C7]

Rabbit Recombinant Monoclonal

Purified		RefSeq ID	NP_002829.3
Catalog No.	A700-012	Uniprot ID	P08575
Lot No.	3	GeneID	5788

APPLICATIONS	WB, IP, IHC, ICC, IHC-IF, Flow Cyt
SPECIES REACTIVITY	Human
AMOUNT	100 µl (50+ tests)
CONCENTRATION	50 µg/ml
STORAGE/SHELF LIFE	2 - 8°C / 1 year from date of receipt
PHYSICAL STATE	Liquid
BUFFER	Borate Buffered Saline (BBS) pH 8.2 with 0.1% BSA and 0.09% Sodium Azide
ISOTYPE	IgG
CLONE #	BL-178-12C7
ORIGIN	USA
PRODUCTION PROCEDURES	Recombinant antibody was purified from cell culture supernatant. Immunogen was a synthetic peptide representing a region between residue 1250 to 1306 (C-terminus) of human CD45 Molecule according to the numbering given in entry NP_002829.3 (GeneID 5788).

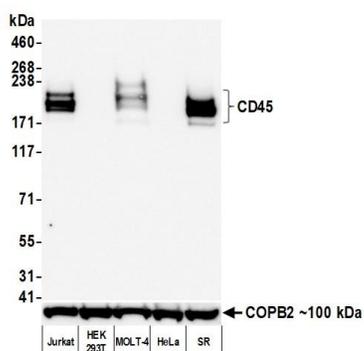
APPLICATIONS Centrifuge tube to remove product from lid. Optimal working dilutions should be determined experimentally by the investigator. Prepare working dilution immediately before use.

Western Blot	1:1000
Immunoprecipitation	20 µl/mg lysate
Immunohistochemistry	1:100 – 1:500. Epitope retrieval with citrate buffer pH 6.0 is recommended for FFPE tissue sections.
Immunocytochemistry	1:100 – 1:500. Epitope retrieval with citrate buffer pH6.0 is recommended for FFPE cell sections.
Immunofluorescence (IHC)	1:100 to 1:500. Epitope retrieval with citrate buffer pH6.0 is recommended for FFPE cell sections.
Flow Cytometry	1 µl per 1 X 10 ⁶ cells

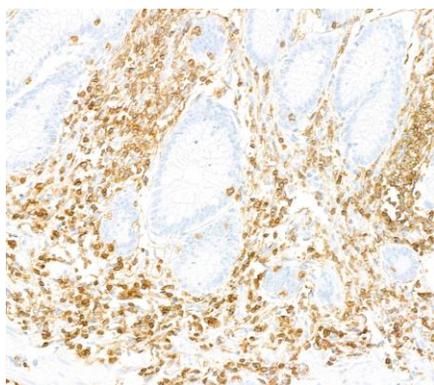
IHC HUMAN CONTROLS Appendix, Breast Carcinoma, Colon Carcinoma, Intestine, Tonsil, Daudi Cells, Jurkat Cells, Ramos Cells

ADDITIONAL INFO <https://www.fortislife.com/p/A700-012>
Use the link above to view SDS, a current list of citations, and other product specific information.

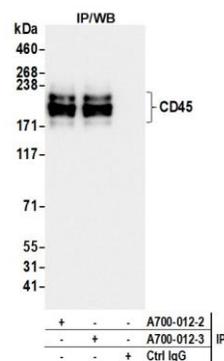
This document certifies that this product has met all of the quality control standards defined by Bethyl Laboratories, Inc.
Michael Spencer, PhD Date: April 17, 2023



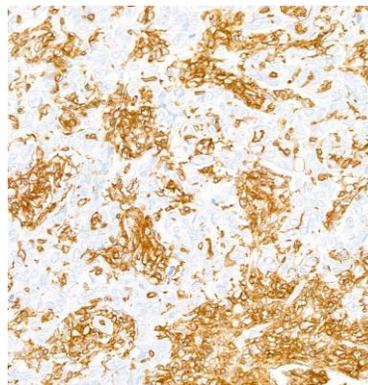
Detection of human CD45 by western blot. *Samples:* Whole cell lysate (50 μ g) from Jurkat, HEK293T, MOLT-4, HeLa, and SR cells prepared using NETN lysis buffer. *Antibody:* Rabbit anti-CD45 recombinant monoclonal antibody [BL-178-12C7] (A700-012 lot 3) used at 1:1000. *Secondary:* HRP-conjugated goat anti-rabbit IgG (A120-101P). Chemiluminescence with an exposure time of 3 seconds. Lower Panel: Rabbit anti-COPB2 antibody (A304-523A).



Detection of human CD45 by immunohistochemistry. *Sample:* FFPE section of appendix. *Antibody:* Rabbit anti-CD45 recombinant monoclonal antibody [BL-178-12C7] (A700-012). *Secondary:* HRP-conjugated goat anti-rabbit IgG (A120-501P).



Detection of human CD45 by western blot of immunoprecipitates. *Samples:* Whole cell lysate (1.0 mg per IP reaction; 20% of IP loaded) from Jurkat cells prepared using NETN lysis buffer. *Antibodies:* Rabbit anti-CD45 recombinant monoclonal antibody [BL-178-12C7] (A700-012 lot 3) used for IP at 20 μ l/mg lysate. CD45 was also immunoprecipitated by a previous lot of this antibody (A700-012 lot 2). For blotting immunoprecipitated CD45, A700-012 was used at 1:1000. Chemiluminescence with an exposure time of 1 second.

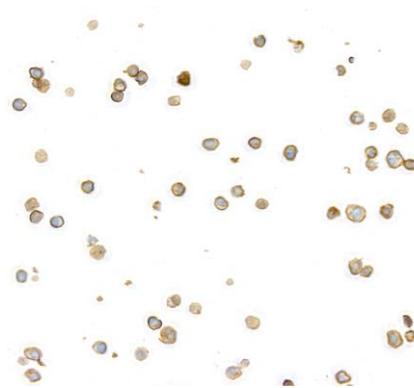


Detection of human CD45 by immunohistochemistry. *Sample:* FFPE section of breast carcinoma. *Antibody:* Rabbit anti-CD45 recombinant monoclonal antibody [BL-178-12C7] (A700-012). *Secondary:* HRP-conjugated goat anti-rabbit IgG (A120-501P).



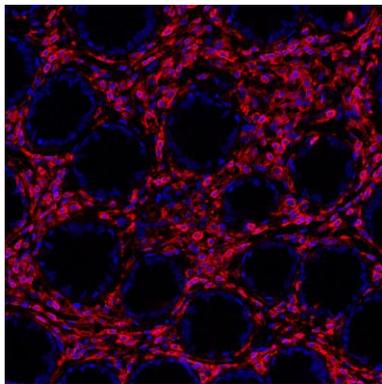
Detection of human CD45 by immunocytochemistry.

Sample: FFPE section of Jurkat cells. *Antibody:* Rabbit anti-CD45 recombinant monoclonal antibody [BL-178-12C7] (A700-012). *Secondary:* HRP-conjugated goat anti-rabbit IgG (A120-501P).

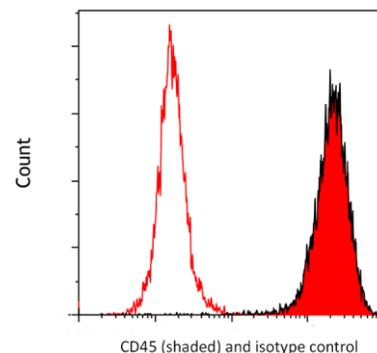


Detection of human CD45 by immunocytochemistry.

Sample: FFPE section of Daudi cells. *Antibody:* Rabbit anti-CD45 recombinant monoclonal antibody [BL-178-12C7] (A700-012). *Secondary:* HRP-conjugated goat anti-rabbit IgG (A120-501P).



Detection of human CD45 (red) by immunohistochemistry. *Sample:* FFPE section of human colon carcinoma. *Antibody:* Rabbit anti-CD45 recombinant monoclonal antibody [BL-178-12C7] (A700-012 lot 1) used at 1:250. *Secondary:* HRP-conjugated goat anti-rabbit IgG (A120-501P). *Substrate:* Opal™. *Counterstain:* DAPI (blue).



Detection of human CD45 by flow cytometry. *Sample:* Jurkat cells were fixed in 4% formaldehyde and permeabilized with 90% methanol. *Antibody:* 1E6 cells were incubated with 1 ul of rabbit anti-CD45 recombinant monoclonal antibody [BL-178-12C7] (A700-012 lot 1) (red shaded) or isotype control (unshaded). *Secondary:* DyLight® 650-conjugated goat anti-rabbit IgG