

Product Datasheet

CD45RO Mouse Monoclonal Antibody (orb1520122)

Catalog Number	orb1520122
Category	Antibodies
Description	CD45 is a protein tyrosine-protein phosphatase required for T-cell activation through the antigen receptor. CD45 acts as a positive regulator of T-cell coactivation upon binding to DPP4. The first PTPase domain has enzymatic activity, while the second one seems to affect the substrate specificity of the first one. Upon T-cell activation, CD45 recruits and dephosphorylates SKAP1 and FYN
Target	CD45RO
Clonality	Monoclonal
Species/Host	Mouse
Isotype	IgG2a
Conjugation	Unconjugated
Reactivity	Human
Form/Appearance	Liquid
Concentration	50 µg/ml
Buffer/Preservatives	Phosphate Buffered Saline (PBS) pH 8.2 with 0.1% rAlbumin and 0.09% Sodium Azide
Purity	The antibody was purified from cell culture supernatant
Purification	Purified
Immunogen	Cultured T-cells from an IL-2-dependent T-cell line

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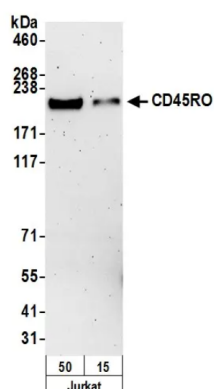
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UniProt ID	P08575
Tested applications	FC, ICC, IF, IHC, WB
Dilution range	Flow-Cyt Live or cells fixed in 4% formaldehyde and permeabilized with 90% methanol. 5 µl per 1 x 10 ⁶ cells. Immunocytochemistry (ICC) 1:100 - 1:500. Epitope retrieval with citrate buffer pH 6.0 is recommended for FFPE cell sections. Immunohistochemistry (IHC) 1:100 - 1:500. Epitope retrieval with citrate buffer pH 6.0 is recommended for FFPE tissue sections. IHC-IF 1:100 to 1:500. Epitope retrieval with citrate buffer pH6.0 is recommended for FFPE tissue sections.. Multiplex Immunofluorescence (mIF) 1:250. Western Blot (WB) 1:250
Application notes	All western blot analysis is performed using 5% Milk-TBST for blocking and as antibody diluent. Primary antibody is incubated overnight
Antibody Type	Primary Antibody
Clone Number	UCHL-1
Storage	2 - 8°C
Note	For research use only
NCBI	NP_563578.2
Expiration Date	12 months from date of receipt.



Detection of human CD45RO by western blot. Samples: Whole cell lysate (15 and 50 µg) from Jurkat cells prepared using NETN lysis buffer. Antibody: mouse anti-CD45RO antibody used at 1:250. Secondary: HRP-conjugated goat anti-mouse IgG. Detection: Chemiluminescence with an exposure time of 3 minutes

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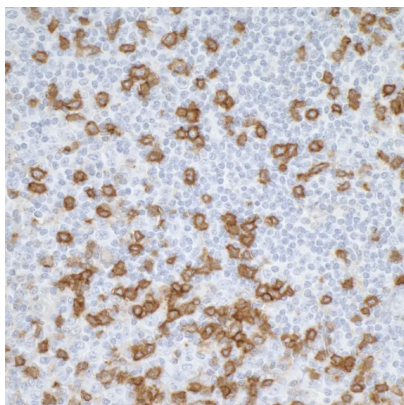
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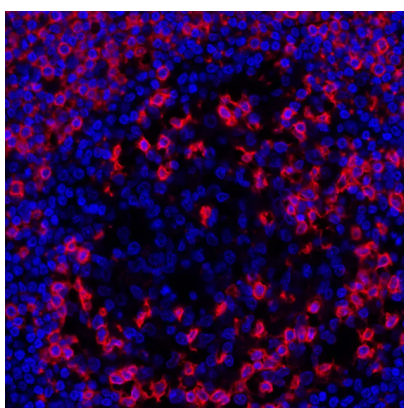
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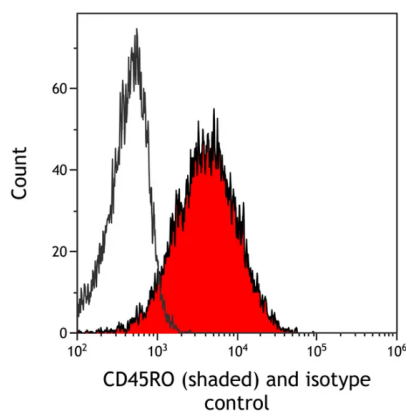
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Detection of human CD45RO by immunohistochemistry.
Sample: FFPE section of human tonsil. Antibody: Mouse monoclonal anti-CD45RO antibody used at a dilution of 1:250.
Secondary: HRP-conjugated goat anti-mouse IgG. Substrate: DAB. Counterstain: Hematoxylin (blue)



Detection of human CD45RO (red) by immunohistochemistry.
Sample: FFPE section of human lung carcinoma. Antibody: Mouse anti-CD45RO monoclonal antibody used at 1:250.
Substrate: Opal™. Counterstain: DAPI (blue)



Detection of human CD45RO (shaded) in Jurkat cells by flow cytometry. Antibody: Mouse anti-CD45RO recombinant monoclonal or isotype control (unshaded). Secondary: DyLight® 488-conjugated goat anti-mouse IgG

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