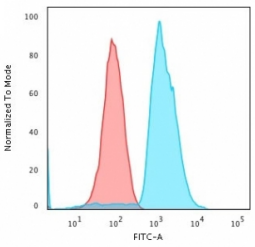
Anti-CD45RA Antibody [clone SPM568] (V2412)

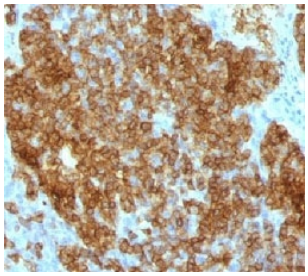
Catalog No.	Formulation	Size
V2412-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V2412-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V2412SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V2412IHC-7ML	Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only*	7 ml

Bulk quote request

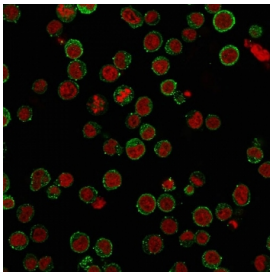
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2a, kappa
Clone Name	SPM568
Purity	Protein G affinity chromatography
UniProt	P08575
Localization	Cell surface
Applications	Flow Cytometry : 1-2ug/10^6 cells Immunofluorescence : 1-2ug/ml Western Blot : 1-2ug/ml Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT
Limitations	This anti-CD45RA antibody is available for research use only.



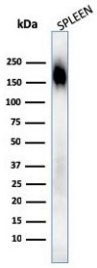
Flow cytometry testing of human Jurkat cells with anti-CD45 antibody (clone SPM568); Red=isotype control, Blue= anti-CD45 antibody.



IHC test of FFPE human tonsil probed with anti-CD45RA antibody (clone SPM568).



Immunofluorescent staining of PFA-fixed human Jurkat cells with anti-CD45RA antibody (green, clone SPM568) and Reddot nuclear stain (red).



Western blot testing of human spleen lysate with CD45RA antibody (clone SPM568). Expected molecular weight: 147-220 kDa depending on glycosylation level.

Description

CD45RA is an isoform of the human leukocyte common antigen (CD45). Human CD45 contains three exons which encode peptide segments designated A, B and C, respectively. The differential splicing of the exons generates at least five isoforms, ABC, AB, BC, B and O. This antibody reacts with ABC and BC isoforms. CD45RA is expressed on 40-50% of peripheral CD4+ T-cells, 50% of peripheral CD8+ T-cells, B-cells, and leukemic B-cell lines. T-cells expressing CD45RA are naive or virgin T-cells. T-cells expressing CD45RO are memory T-cells. CD45RA and CD45RO define complementary, predominantly non-overlapping populations of resting peripheral T-cells. This MAb is useful in study on the subpopulation of CD4+ or CD8+ T-cells. It can especially be used to differentiate T-cell lymphomas (CD45RO +ve) from B cell lymphomas (CD45RA +ve).

CD45RA is an alternatively spliced form of PTPRC widely studied in lymphocyte differentiation and immune cell phenotyping; learn more about the target and related reagents on our CD45RA Antibody page.

Application Notes

Due to variation in protocol and secondary antibody used, the anti-CD45RA antibody may need to be titered for optimal performance.

1. FFPE staining requires boiling tissue sections in pH 9 10mM Tris with 1mM EDTA for 10-20 min followed by cooling at RT for 20 minutes.
2. The prediluted format is supplied in a dropper bottle and is optimized for use in IHC. After epitope retrieval step (if required), drip mAb solution onto the tissue section and incubate at RT for 30 min.

Immunogen

Stimulated human leukocytes were used as immunogen for this anti-CD45RA antibody.

Storage

The anti-CD45RA antibody (with azide) can be stored at 2-8oC. The azide-free format should be aliquoted and stored at -20oC or colder.

References (2)

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