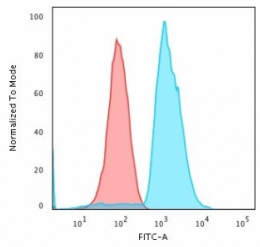
# Anti-CD45RA Antibody [clone SPM568] (V2412)

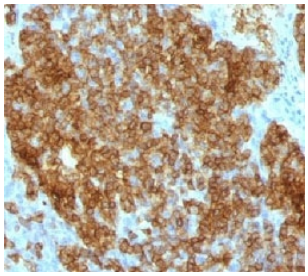
| Catalog No. | Formulation | Size |
|---|---|---|
| V2412-100UG | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide | 100 ug |
| V2412-20UG | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide | 20 ug |
| V2412SAF-100UG | 1 mg/ml in 1X PBS; BSA free,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

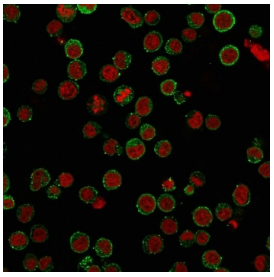
| | |
|---|---|
| **Species Reactivity** | Human |
| **Format** | Purified |
| **Host** | Mouse |
| **Clonality** | Monoclonal (mouse origin) |
| **Isotype** | Mouse IgG2a, kappa |
| **Clone Name** | SPM568 |
| **Purity** | Protein G affinity chromatography |
| **UniProt** | P08575 |
| **Localization**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



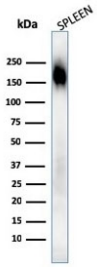

Flow cytometry testing of human Jurkat cells with anti-CD45 antibody (clone SPM568); Red=isotype control, Blue= anti-CD45 antibody.



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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