

## CD45 Antibody [clone F10-89-4] (V3223)

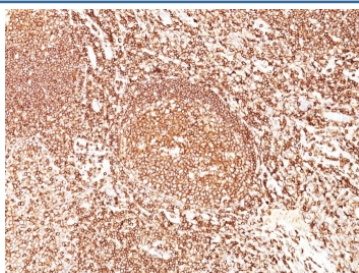
Catalog No.	Formulation	Size
V3223-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V3223-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V3223SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug



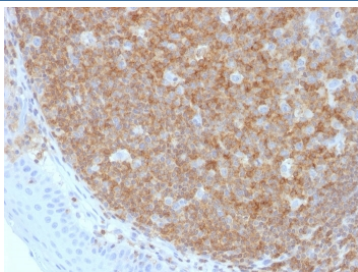
Citations (20)

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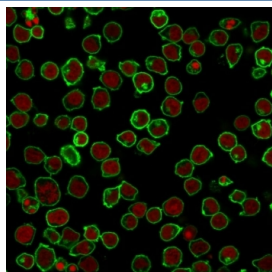
<b>Species Reactivity</b>	Human
<b>Format</b>	Purified
<b>Clonality</b>	Monoclonal (mouse origin)
<b>Isotype</b>	Mouse IgG2a, kappa
<b>Clone Name</b>	F10-89-4
<b>Purity</b>	Protein G affinity chromatography
<b>Buffer</b>	1X PBS, pH 7.4
<b>UniProt</b>	P08575
<b>Localization</b>	Cell surface and cytoplasmic
<b>Applications</b>	Flow Cytometry : 1-2ug/10 <sup>6</sup> cells Immunofluorescence : 1-2ug/ml Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT
<b>Limitations</b>	This CD45 antibody is available for research use only.



IHC staining of FFPE human tonsil tissue with CD45 antibody (clone F10-89-4). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



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Immunofluorescent staining of PFA-fixed human Jurkat cells with CD45 antibody (clone F10-89-4, green) and Reddot nuclear stain (red).

## Description

CD45R, also designated CD45 and PTPRC, has been identified as a transmembrane glycoprotein, broadly expressed among hematopoietic cells. Multiple isoforms of CD45R are distributed throughout the immune system according to cell type. These isoforms arise because of alternative splicing of exons 4, 5, and 6. The corresponding protein domains are characterized by the binding of monoclonal antibodies specific for CD45RA (exon 4), CD45RB (exon 5), CD45RC (exon 6) and CD45RO (exons 4 to 6 spliced out). The variation in these isoforms is localized to the extracellular domain of CD45R, while the intracellular domain is conserved. CD45R functions as a phosphor-tyrosine phosphatase. Antibody to CD45 is useful in differential diagnosis of lymphoid tumors from non-hematopoietic undifferentiated neoplasms.

## Application Notes

Due to variation in protocol and secondary antibody used, the CD45 antibody may need to be titrated for optimal performance.

## Immunogen

Human T-lymphocytes were used as the immunogen for the CD45 antibody.

## Storage

CD45 antibody (with azide) can be stored at 2-8°C. The azide-free format should be aliquoted and stored at -20°C or colder.

## References (2)