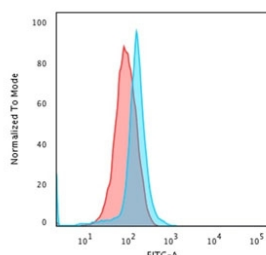


## CD45 Antibody [clone PTPRC/1666] (V8396)

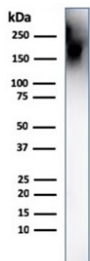
Catalog No.	Formulation	Size
V8396-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V8396-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V8396SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

**Bulk quote request**

<b>Availability</b>	1-3 business days
<b>Species Reactivity</b>	Human
<b>Format</b>	Purified
<b>Clonality</b>	Monoclonal (mouse origin)
<b>Isotype</b>	Mouse IgG1, kappa
<b>Clone Name</b>	PTPRC/1666
<b>Purity</b>	Protein G affinity chromatography
<b>UniProt</b>	P08575
<b>Localization</b>	Cell surface
<b>Applications</b>	Flow Cytometry : 1-2ug/million cells Western Blot : 1-2ug/ml
<b>Limitations</b>	This CD45 antibody is available for research use only.



Flow cytometry testing of PFA-fixed human Jurkat cells with CD45 antibody (clone PTPRC/1666); Red=isotype control, Blue= CD45 antibody.



Western blot testing of human spleen lysate with CD45 antibody. Expected molecular weight: 147-220 kDa depending on glycosylation level.

## 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

Optimal dilution of the CD45 antibody should be determined by the researcher.

## Immunogen

Human recombinant full-length protein was used as the immunogen for the CD45 antibody.

## Storage

Store the CD45 antibody at 2-8°C (with azide) or aliquot and store at -20°C or colder (without azide).