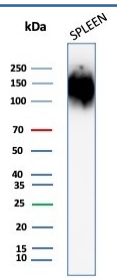
CD45 Antibody rPTPRC/1147 / Recombinant Mouse Monoclonal [clone rPTPRC/1147] (V4771)

Catalog No.	Formulation	Size
V4771-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V4771-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V4771SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

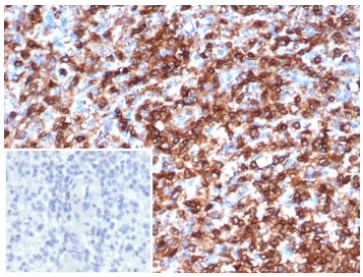
Recombinant | MOUSE MONOCLONAL

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Recombinant Mouse Monoclonal
Isotype	Mouse IgG1, kappa
Clone Name	rPTPRC/1147
Purity	Protein A/G affinity
UniProt	P08575
Localization	Cell surface, Cytoplasm
Applications	Western blot: 1-2ug/ml Immunohistochemistry (FFPE): 1-2ug/ml for 30 min at RT
Limitations	This CD45 antibody is available for research use only.



Western blot testing of human spleen tissue lysate with CD45 antibody (clone rPTPRC/1147). Expected molecular weight: 147-220 kDa depending on glycosylation level.



IHC staining of FFPE human spleen tissue with CD45 antibody (clone rPTPRC/1147). Inset: PBS used in place of primary Ab (secondary Ab negative control). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.

Description

CD45 Antibody rPTPRC/1147 detects CD45, also designated CD45R and PTPRC, 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.

CD45 is encoded by PTPRC and functions as a key regulator of leukocyte signaling and hematopoietic cell biology; additional reagents targeting this protein are available on the CD45 Antibody page.

Application Notes

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

Immunogen

Recombinant full-length human PTPRC protein was used as the immunogen for the CD45 antibody.

Storage

Aliquot the CD45 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

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