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Product datasheet for SM1795P

CD45 (PTPRC) Mouse Monoclonal Antibody [Clone ID: F-10-89-4]

Product data:

Product Type:	Primary Antibodies
Clone Name:	F-10-89-4
Applications:	FC, IHC, IP
Recommended Dilution:	Immunoprecipitation. Flow Cytometry: Use 10 µl of of 1/10-1/50 diluted antibody to label 10e6 cells in 100 µl. Immunohistochemistry on Frozen Sections: 1/500-1/1000 Immunohistochemistry on Paraffin Embedded Sections: 1/100-1/200. Requires antigen retrieval using heat treatment, 1mM EDTA pH8.0 is recommended for this purpose. Recommended Positive Control Tissue: Human tonsil.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Human T lymphocytes
Specificity:	Recognises the Human CD45 cell surface antigen, also known as the leucocyte common antigen (LCA). CD45 is a complex molecule existing in a number of isoforms. Antibodies recognising a common epitope on all of these isoforms are termed CD45 whilst those recognising only individual isoforms are termed CD45RA or CD45RO etc. Clone F10-89-4 reacts with all forms of CD45 expressed by all haematopoietic cells, except erythrocytes, having a higher level of expression on lymphocytes than on granulocytes. This product is routinely tested in Flow Cytometry on Human peripheral blood leucocytes.
Formulation:	PBS buffer pH 7.4 with 0.09% Sodium Azide as preservative and 1% BSA as stabilizer State: Purified State: Liquid purified Ig fraction
Concentration:	lot specific
Purification:	Protein G Affinity Chromatography
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.

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Stability:	Shelf life: One year from despatch.
Gene Name:	protein tyrosine phosphatase, receptor type C
Database Link:	Entrez Gene 5788 Human P08575
Background:	CD45 is a family of single chain transmembraneous glycoproteins consisting of at least four isoforms (220, 205, 190, 180 kDa) which share a common large intracellular domain. Their extracellular domains are heavily glycosylated. The different isoforms are produced by alternative messenger RNA splicing of three exons of a single gene on chromosome 1. CD45 is expressed on cells of the human hematopoietic lineage (including hematopoietic stem cells) with the exception of mature red cells. It is not detected on differentiated cells of other tissues. It is likely that CD45 plays an important role in signal transduction, inhibition or upregulation of various immunological functions. Antibodies recognising a common epitope on all of the isoforms are termed CD45 whilst those recognising only individual isoforms are termed CD45RA or CD45RO etc.
Synonyms:	PTPRC, Leukocyte common antigen, L-CA, T200