

## Product datasheet for **SM1796P**

### CD45 (PTPRC) (CD45RA) Mouse Monoclonal Antibody [Clone ID: F8-11-13]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	F8-11-13
Applications:	FC, IHC
Recommended Dilution:	Flow cytometry (Use 10 µl of 1/50 - 1/100 diluted antibody to label 10e6 cells in 100 µl). Immunohistochemistry on frozen and paraffin embedded sections (1/200; Does not require protein digestion pre-treatment nor antigen retrieval using heat treatment). Recommended Positive Control Tissue: Human tonsil.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Human T lymphocytes
Specificity:	Recognises the human CD45RA cell surface antigen. 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 F8-11-13 reacts with the high molecular weight form of the leucocyte common antigen (LCA) expressed by B lymphocytes and a subset of T lymphocytes. This product is routinely tested in flow cytometry on human peripheral blood lymphocytes.
Formulation:	PBS buffer with 0.09% sodium azide as preservative State: Purified State: Liquid
Concentration:	lot specific
Purification:	Protein G affinity purified immunoglobulin fraction
Conjugation:	Unconjugated
Storage:	Store the antibody at 2-8°C for one month or at -20°C for longer. This product should be stored undiluted. Avoid repeated freezing and thawing.
Stability:	Shelf life: One year from despatch.



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<b>Gene Name:</b>	protein tyrosine phosphatase, receptor type C
<b>Database Link:</b>	<a href="#">Entrez Gene 5788 Human P08575</a>
<b>Background:</b>	CD45 is a family of single chain transmembrane 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.
<b>Synonyms:</b>	PTPRC, Leukocyte common antigen, L-CA, T200