

## Product datasheet for **SM21APC**

### CD45 (PTPRC) Mouse Monoclonal Antibody [Clone ID: F10-89-4]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	F10-89-4
Applications:	FC
Recommended Dilution:	Flow Cytometry.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Human T lymphocytes
Specificity:	This antibody recognises the CD45 cell surface antigen, also known as the leucocyte common antigen (LCA). 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:	Phosphate buffered saline pH7.4 containing 0.09% Sodium Azide, 1% Bovine Serum Albumin Label: APC State: Lyophilised purified IgG Label: Allophycocyanin
Reconstitution Method:	Reconstitute in 0.25 ml distilled water
Purification:	Affinity chromatography
Conjugation:	APC
Storage:	Prior to and following reconstitution store the antibody at 2-8°C. DO NOT FREEZE! This product is photosensitive and should be protected from light.
Stability:	Shelf life: one year from despatch.
Gene Name:	protein tyrosine phosphatase, receptor type C
Database Link:	<a href="#">Entrez Gene 5788 Human P08575</a>



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**Background:**

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.

**Synonyms:**

PTPRC, Leukocyte common antigen, L-CA, T200