

## Product datasheet for **SM582F**

### CD45 Mouse Monoclonal Antibody [Clone ID: IH-1]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	IH-1
Applications:	FC
Recommended Dilution:	<b>Flow Cytometry:</b> Use 10 µl of neat-1/10 diluted antibody to label 1 <sup>0</sup> cells in 100 µl.
Reactivity:	Guinea Pig
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Guinea pig leukemic B lymphocyte L2C cells
Specificity:	The antibody reacts with CD45 on all leucocytes.
Formulation:	PBS, pH 8.0 Label: FITC State: Liquid purified IgG fraction Stabilizer: 1% BSA Preservative: 0.09% Sodium Azide Label: Fluorescein Isothiocyanate Isomer 1
Concentration:	lot specific
Purification:	Affinity Chromatography on Protein A
Conjugation:	FITC
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.



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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:**

Leukocyte common antigen, L-CA, PTPRC, T200, CD45RB, CD45RO, CD45RA, CD45R

**Note:**

Immunoprecipitates proteins of M.Wt. 220,000, 210,000, 195,000 and 180,000 from lymph node lymphocytes and proteins of M.Wt 195,000, 180,000 and 170,000 from thymocytes.