

Product datasheet for **AM02304PU-S**

CD45 (PTPRC) Mouse Monoclonal Antibody [Clone ID: L12/201]

Product data:

Product Type:	Primary Antibodies
Clone Name:	L12/201
Applications:	FC, IF, IHC
Recommended Dilution:	Flow Cytometry: Use 10 µl of 1/50-1/100 dilution to label 10 ⁶ cells or 100µl whole blood. Immunohistochemistry on Frozen Sections. Immunofluorescence. Immunoprecipitation was only obtained after cross linking antibody to the labelled cell surface. This gave a band of 200 kDa.
Reactivity:	Rabbit
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Glycoproteins isolated from the T cell line, RL-5. Spleen cells from immunised mice were fused with cells of the P3.X63.Ag8-U1 mouse myeloma cell line.
Specificity:	This antibody shows pan leucocyte reactivity by flow cytometry and immunohistochemistry.
Formulation:	PBS State: Aff - Purified State: Liquid purified Ig fraction Preservative: 0.09% Sodium azide
Concentration:	lot specific
Purification:	Affinity Chromatography on Protein G
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	protein tyrosine phosphatase, receptor type C
Database Link:	P08575



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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