

Product datasheet for **SM035P**

CD45 / LCA Rat Monoclonal Antibody [Clone ID: IBL3/16]

Product data:

Product Type:	Primary Antibodies
Clone Name:	IBL3/16
Applications:	FC, IF, IHC, IP
Recommended Dilution:	Flow Cytometry: Use 10 µl of 1/50-1/100 diluted antibody to label 10 ⁶ cells in 100 µl. Immunofluorescence. Immunoprecipitation. Immunohistochemistry on Frozen Sections: 1/50-1/100. The epitope recognised by this antibody is reported to be sensitive to formaldehyde fixation and tissue processing. We recommend the use of acetone fixation for frozen sections. Not suitable for Paraffin, Resin Sections and Western blotting.
Reactivity:	Mouse
Host:	Rat
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Purified B cells from mouse lymph nodes.
Specificity:	Recognizes Mouse CD45. It Enhances the MHC Class II induced cluster formation of mouse B cells.
Formulation:	PBS, pH 7.2 State: Purified State: Liquid purified IgG fraction from Tissue Culture Supernatant Stabilizer: 0.1% BSA Preservative: 0.09% Sodium Azide
Concentration:	lot specific
Purification:	Affinity Chromatography Protein G
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for up to one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.



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Gene Name:	protein tyrosine phosphatase, receptor type, C
Database Link:	Entrez Gene 19264 Mouse P06800
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