

## Product datasheet for **AM08045FC-N**

### CD45 / LCA (CD45RB) Rat Monoclonal Antibody [Clone ID: C363.16A]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	C363.16A
Applications:	FC
Recommended Dilution:	<b>Flow Cytometry.</b> < / = 1 µg/10e6 cells. (Ref.1-3)
Reactivity:	Mouse
Host:	Rat
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Cloned mouse Th2 cell lines. (Ref.1)
Specificity:	This antibody is specific to an exon B-dependent epitope of CD45 glycoprotein.
Formulation:	PBS containing 0.09% Sodium Azide as preservative. Label: FITC State: Liquid purified Ig fraction.
Reconstitution Method:	Fluorescein Isothiocyanate Isomer 1 (FITC)
Concentration:	lot specific
Conjugation:	FITC
Storage:	Store the antibody 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.
Gene Name:	protein tyrosine phosphatase, receptor type, C
Database Link:	<a href="#">Entrez Gene 19264 Mouse P06800</a>



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**Background:**

CD45RB is an isoform of CD45 with exon 5 splicing (encodes B determinant). It is a 220 kD glycoprotein expressed on peripheral B cells, naïve T cells, thymocytes, weakly on macrophages, and dendritic cells. It plays a critical role in TCR and BCR signaling. As T cells become activated and progress from naïve to memory cells, CD45RB expression is downregulated. Additionally, functionally distinct CD4 T cell subsets, which secrete differing cytokine profiles, can be separated by CD45RB intensity. The primary ligands for CD45 are galectin-1, CD2, CD3, CD4 and Thy-1.

Distribution: Peripheral B cells, naïve T cells, most thymocytes, low density on macrophages and dendritic cells.

Function: Phosphatase, T cell development and activation Structure: Phosphatase receptor (CD45 gene exon 5), 220 kD

**Synonyms:**

PTPRC, Leukocyte common antigen, L-CA, T200