

Product Data Sheet

Cat # AB-13910

Rat Anti-Mouse B220 (CD45R) IgG

Size: 100ug

B220 (CD45R) is a member of the protein tyrosine phosphatase (PTP) family. PTPs are known to be signaling molecules that regulate a variety of cellular processes including cell growth, differentiation, mitotic cycle, and oncogenic transformation. This PTP contains an extracellular domain, a single transmembrane segment and two tandem intracytoplasmic catalytic domains, and thus belongs to receptor type PTP. This gene is specifically expressed in hematopoietic cells. This PTP has been shown to be an essential regulator of T- and B-cell antigen receptor signaling. It functions through either direct interaction with components of the antigen receptor complexes, or by activating various Src family kinases required for the antigen receptor signaling. This PTP also suppresses JAK kinases, and thus functions as a regulator of cytokine receptor signaling. Four alternatively spliced transcripts variants of this gene, which encode distinct isoforms, have been reported. B220 (CD45R) is required for t-cell activation through the antigen receptor. The first ptpase domain has enzymatic activity, while the second one seems to affect the substrate specificity of the first one. Staining antibody. For staining, use 10 μ l/10⁶ cells.

Synonyms:

LCA, PTPRC, LY5, B220, CD45R, T200, GP180, PROTEIN-TYROSINE PHOSPHATASE, RECEPTOR-TYPE C

Immunogen:

Purified mouse LN B cells

Antibody Type:

Rat IgM; purified by ion exchange column; 1 mg/mL in PBS after reconstitution; Reconstitute with of H₂O. Mix gently, wash the sides of the vial and wait 30-60 seconds before use. Supplied in PBS or lyophilized without any preservatives.

Lyophilized/powder form: store at 4°C. After reconstitution, if not intended for use within a month, aliquot and store at -20°C. Two years lyophilized, one month in solution at 4°C. If supplied in powder then reconstitute it in 100 ul water for 1 mg/ml stock and store in liquid at 4°C for ~1 week or aliquots in suitable size and store at -20°C for long term storage.

Isotype control (negative)

20005-2-1	Rat Serum IgM (non-immune),purified
20005-21-B	Rat IgM-Biotin conjugate (isotype control)
20005-21-F	Rat IgM-FITC conjugate (isotype control)
20005-21-HP	Rat IgM-HRP conjugate (isotype control)
20005-21-PE	Rat IgM-R-PE conjugate (isotype control)

Suggested Secondary Antibodies

- 50419 Anti-Rat IgM (mu chain), unlabeled aff pure
- 50420 Anti-Rat IgM (mu chain)-HRP conjugate
- 50430 Anti-Rat IgM (mu chain)-FITC conjugate

This item is for LABORATORY RESEARCH USE ONLY.

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