



Category: Monoclonal Antibodies
Product Name: Mouse Monoclonal Antibody to CD45

Catalog Number: MAB-606020298

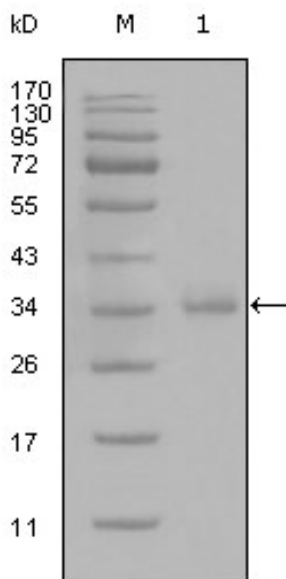


Figure 1: Western blot analysis using anti-CD45 monoclonal antibody against truncated CD45 recombinant protein (1).

Lot#:
Clone#: 4A8A4C7A2
Host and isotype: Mouse IgG1
Size: 0.1ml
MW:
Aliases: LCA; LY5; B220; CD45;
T200; CD45R; GP180; PTPRC
Entrez Gene: 5788
Species reactivity: Human

Description CD45, also known as TPRC (protein tyrosine phosphatase, receptor type, C). The protein encoded by this gene 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.

Immunogen Purified recombinant fragment of CD45 expressed in E. Coli.

Application Western Blotting: 1/500 - 1/2000.
Immunohistochemistry: 1/200 - 1/1000.
ELISA: Propose dilution 1/10000.
Not yet tested in other applications.
Determining optimal working dilutions by titration test.

Formulation Ascitic fluid containing 0.03% sodium azide.

Storage Store at 4°C, for long term storage, store at -20°C.

Related product

References 1. Biol Chem. 2008 May;389(5):561-8.
2. Immunology. 2008 Dec;125(4):558-69.

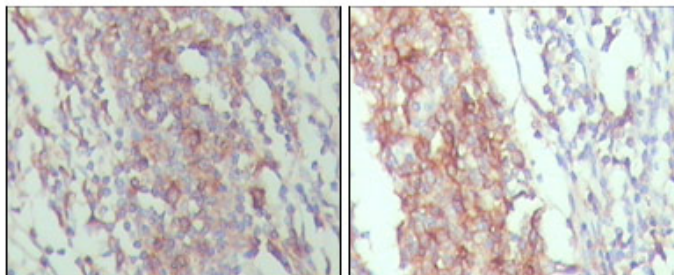


Figure 2: Immunohistochemical analysis of paraffin-embedded human lymph node tissue, showing membrane and cytoplasmic localization with DAB staining using CD45 mouse mAb.

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