



CD45 Mouse Monoclonal Antibody

E10-20298

Background: 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.

Catalog Number: E10-20298

Amount: 100µg/100µl

Clone Number: 4A8A4C7A2

Species: Mouse IgG1

Aliases: LCA; LY5; B220; CD45; T200; CD45R; GP180; PTPRC

Entrez Gene: 5788

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

Storage: Store at 4 °C for long term storage, store at

Formulation: Ascitic fluid containing 0.03% sodium azide.

Species Reactivities: Human

Tested Applications: WB, IHC, ELISA. Not yet tested in other applications. Determining optimal working dilutions by titration test.

Application notes: WB. 1/500 - 1/2000. IHC. 1/200 - 1/1000. ELISA. Propose dilution 1/10000.

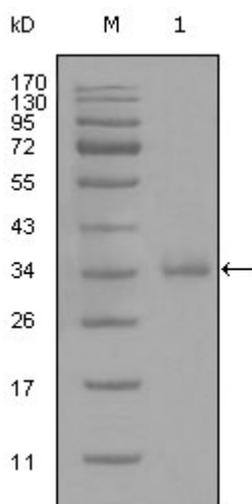


Figure 1. Western blot analysis using anti-CD45 monoclonal antibody against truncated CD45 recombinant protein (1).

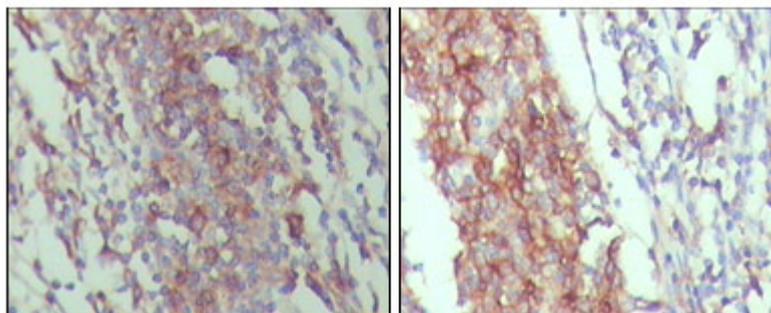


Figure 2. Immunohistochemical analysis of paraffin-embedded human lymph node tissue, showing membrane and cytoplasmic localization with DAB staining using CD45 mouse mAb.

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