

Product datasheet for **AM06301SU-N**

CD45 (PTPRC) Mouse Monoclonal Antibody [Clone ID: 4A8A4C7A2]

Product data:

Product Type:	Primary Antibodies
Clone Name:	4A8A4C7A2
Applications:	IHC, WB
Recommended Dilution:	ELISA: 1/10000. Western blot: 1/500-1/2000. Immunohistochemistry on Paraffin Sections: 1/200-1/1000.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Purified recombinant fragment of CD45 expressed in E. Coli.
Specificity:	Recognizes CD45
Formulation:	State: Ascites State: Ascitic fluid containing 0.03% Sodium Azide.
Conjugation:	Unconjugated
Storage:	Store at 4°C, for long term storage, store at -20°C.
Gene Name:	protein tyrosine phosphatase, receptor type C
Database Link:	Entrez Gene 5788 Human P08575



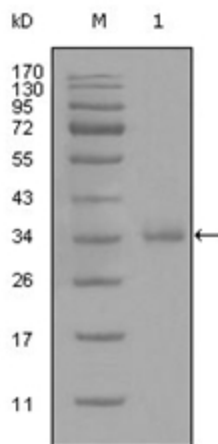
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Background:

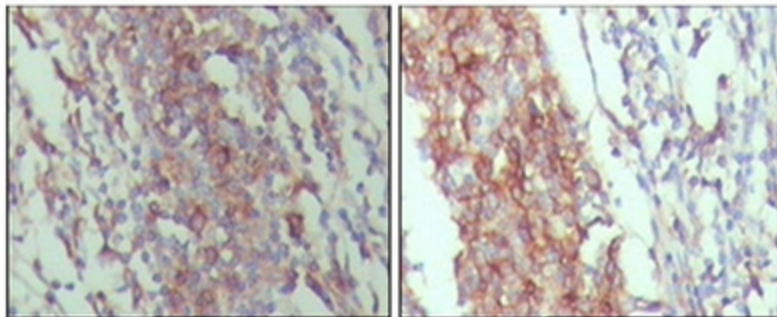
CD45, also known as TPRC (protein tyrosine phosphatase, receptor type, C). The protein encoded by this gene is a member of the protein tyrosine phosphatase (PTP) family. PTPs are known to be signaling molecules that regulate a variety of cellular processes including cell growth, differentiation, mitotic 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.

Synonyms:

PTPRC, Leukocyte common antigen, L-CA, T200

Product images:


Western blot analysis using anti-CD45 antibody Cat.-No AM06301SU-N against truncated CD45 recombinant protein (Lane 1).



Immunohistochemical analysis of paraffin-embedded human lymph node tissue, showing membrane and cytoplasmic localization with DAB staining using CD45 antibody Cat.-No AM06301SU-N