

Product datasheet for **AM09001PU-N**

CD45 (PTPRC) Mouse Monoclonal Antibody [Clone ID: 3G4]

Product data:

Product Type:	Primary Antibodies
Clone Name:	3G4
Applications:	ELISA, IHC, WB
Recommended Dilution:	ELISA. Western blot (1/1,000-1/3,000), recommended starting dilution is 1/2000. Immunohistochemistry on Paraffin Sections (10 µg/ml). Heat induced antigen retrieval in pH 6.0 citrate buffer is recommended.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Recombinant human CD45 (1029-1249 aa) purified from <i>E. coli</i> .
Specificity:	The antibody recognizes Human CD45. Other species not tested.
Formulation:	PBS, pH 7.4 containing 0.02% Sodium Azide and 10% Glycerol State: Purified State: Liquid purified Ig fraction
Concentration:	lot specific
Purification:	Protein-G affinity chromatography
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	protein tyrosine phosphatase, receptor type C
Database Link:	Entrez Gene 5788 Human P08575



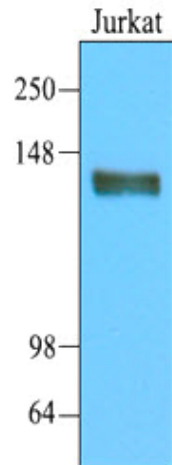
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Background:

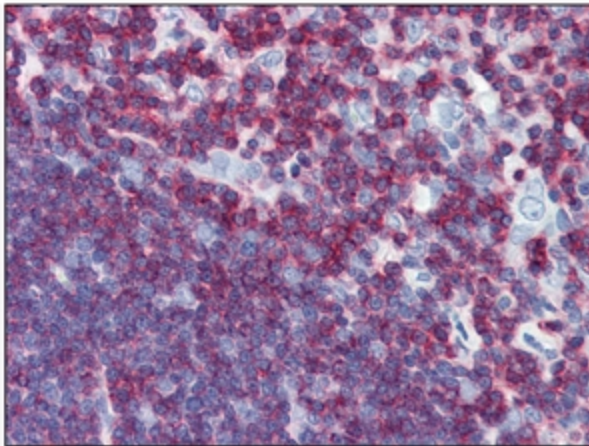
CD45 belongs to a family of heavily glycosylated, high molecular weight transmembrane glycoproteins expressed on all cells of haematopoietic origin. Structurally heterogeneous, CD45 consists of a family of eight isoforms ranging from 180,000 to 220,000 MW generated by alternative splicing of three exons differentially expressed on subpopulation of lymphocytes. CD45 protein tyrosine phosphatase activity plays a central role in T-cell activation. CD45 plays an important role in signal transduction inhibition or upregulation of various immunological functions.

Synonyms:

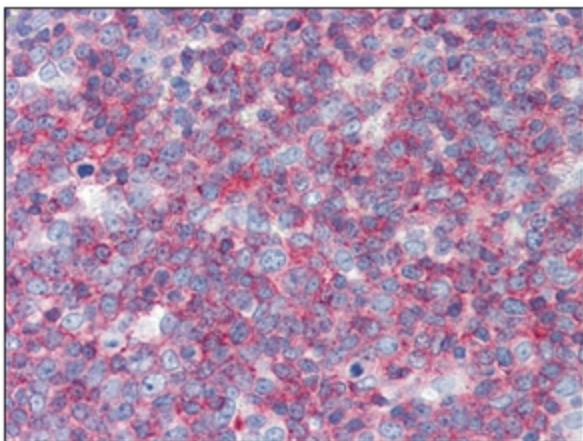
PTPRC, Leukocyte common antigen, L-CA, T200

Product images:

Western blot analysis on Jurkat cells: Cell lysates of Jurkat (20 ug) were resolved by SDS-PAGE, transferred to NC membrane and probed with anti-human CD45 (1:2000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.



Immunohistochemistry: CD45 antibody staining of Formalin-Fixed, Paraffin-Embedded Human Thymus at 10 ug/ml followed by biotinylated anti-mouse IgG secondary antibody, alkaline phosphatase-streptavidin and chromogen.



Immunohistochemistry: CD45 antibody staining of Formalin-Fixed, Paraffin-Embedded Human Tonsil at 10 ug/ml followed by biotinylated anti-mouse IgG secondary antibody, alkaline phosphatase-streptavidin and chromogen.