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Product datasheet for AM33266PU-S

CD45 (PTPRC) Mouse Monoclonal Antibody [Clone ID: SPM570]

Product data:

Product Type:	Primary Antibodies
Clone Name:	SPM570
Applications:	FC, IF, IHC, IP, WB
Recommended Dilution:	**ELISA:** Use BSA free Antibody for Coating. **Western Blot:** 0.5-1 µg/ml. **Immunoprecipitation:** 0.5-1 µg/500 µg protein lysate. **Flow Cytometry:** 0.5-1 µg/10^6 cells. **Immunofluorescence:** 0.5-1 µg/ml. **Immunohistochemistry on Frozen and Formalin-Fixed Paraffin Sections:** 0.5-1 µg/ml for 30 minutes at RT. Staining of formalin-fixed tissues requires boiling tissue sections in 10mM citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes. ***Positive Control:***Ramos, U-698, or GA-10 cells, Tonsil.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Isolated neoplastic cells from T cell lymphoma.
Specificity:	This Monoclonal *SPM570* antibody recognizes Human CD45. Other species not tested. Antibody to CD45 is useful in differential diagnosis of lymphoid tumors from non-hematopoietic undifferentiated neoplasms. ***Cellular Localization:*** Cell surface and cytoplasmic.
Formulation:	10mM PBS State: Purified State: Liquid purified IgG fraction from Bioreactor Concentrate Stabilizer: 0.05% BSA Preservative: 0.05% Sodium Azide
Concentration:	lot specific
Purification:	Protein A/G Chromatography

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Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	180-220 kDa
Gene Name:	protein tyrosine phosphatase, receptor type C
Database Link:	Entrez Gene 5788 Human P08575
Background:	CD45, a transmembrane multifunctional glycoprotein, is a member of the Type I receptor-linked PTPase family. Its physiological functions include T and Bcell activation and proliferation, negative regulation of T and Bcell antigen receptor signaling and cytokine-receptor signaling, negative regulation of IL-3 mediated cellular proliferation, EPO-dependant homeopoiesis and anti-viral responses, regulation of integrin-mediated adhesion and migration of immune cells, chemokine-induced T-cell chemotaxis, MHC-II signaling, IgE mediated degranulation in mast cells, CD40L-induced microglial activation and IL-4 mediated IgE class switch recombination in Bcells. Loss of CD45 has been implicated in SCID, Alzheimer's disease and multiple sclerosis. CD45R, also designated CD45 and PTPRC, has been identified as a transmembrane glycoprotein, broadly expressed among hematopoietic cells. Multiple isoforms of CD45R are distributed throughout the immune system according to cell type. These isoforms arise because of alternative splicing of exons 4, 5, and 6. The corresponding protein domains are characterized by the binding of monoclonal antibodies specific for CD45RA (exon 4), CD45RB (exon 5), CD45RC (exon 6) and CD45RO (exons 4 to 6 spliced out). The variation in these isoforms is localized to the extracellular domain of CD45R, while the intracellular domain is conserved. CD45R functions as a phosphor-tyrosine phosphatase.
Synonyms:	PTPRC, Leukocyte common antigen, L-CA, T200

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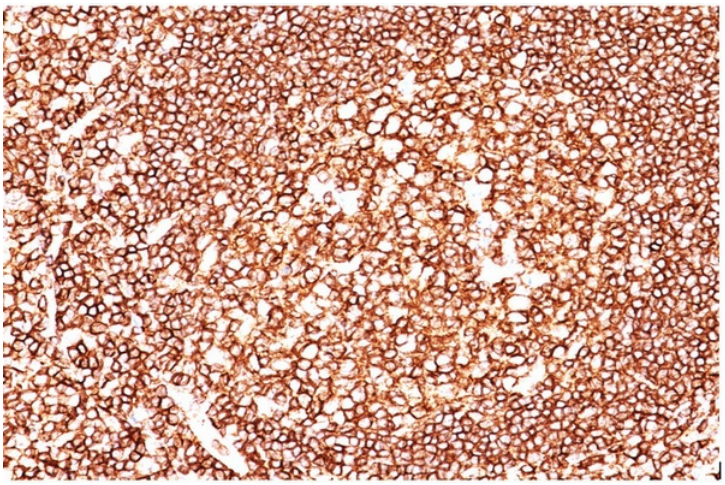
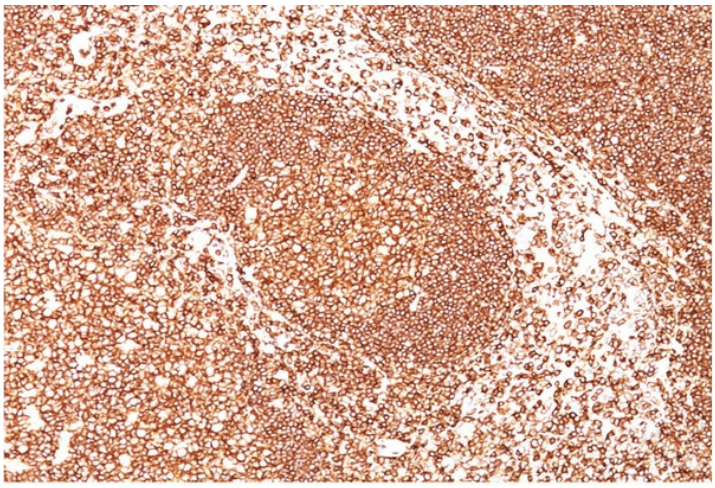
Product images:



Formalin-Fixed, Paraffin-Embedded Human tonsil (20X) stained with CD45 Antibody (Clone SPM570).



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