

Product datasheet for **AM50236PU-S**

CD5 Mouse Monoclonal Antibody [Clone ID: CD5/54/F6]

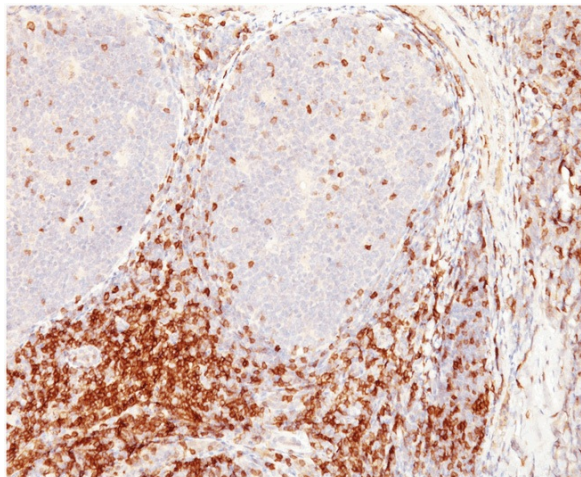
Product data:

Product Type:	Primary Antibodies
Clone Name:	CD5/54/F6
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: 293T, Ramos, or MOLT-4 Cells, Tonsil.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	A synthetic peptide from the intracellular region of human CD5.
Specificity:	Recognizes Human CD5. Other species not tested. Recognizes a 67kDa transmembrane protein, which is identified as CD5. The CD5 antigen is found on 95% of thymocytes and 72% of peripheral blood lymphocytes. In lymph nodes, the main reactivity is observed in T cell areas. Anti-CD5 is a pan T-cell marker that also reacts with a range of neoplastic B-cells, e.g. chronic lymphocytic leukemia/small lymphocytic lymphoma (CLL/SLL), mantle cell lymphoma, and a subset (~10%) of diffuse large B-cell lymphoma. CD5 aberrant expression is useful in making a diagnosis of mature T-cell neoplasms. Anti-CD5 detection is diagnostic in CLL/SLL within a panel of other B-cell markers, especially one that includes anti-CD23. Anti-CD5 is also very useful in differentiating among mature small lymphoid cell malignancies. In addition, anti-CD5 can be used in distinguishing thymic carcinoma (+) from thymoma (-). Anti-CD5 does not react with granulocytes or monocytes. Cellular Localization: Cell surface.



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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
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	67 kDa
Gene Name:	CD5 molecule
Database Link:	Entrez Gene 921 Human P06127
Background:	CD5, a 67KDa Type I transmembrane glycoprotein, is a member of SRCR superfamily expressed specifically of thymocytes, mature T-cells and B-1a cells. CD5 has an extracellular domain with 3 SRCR domains and cytoplasmic tail is devoid of any intrinsic enzyme activity. CD5 functions as a dual receptor modulating either positive or negative co-stimulatory signals depending on the cell type and the developmental stage. It binds CD72 and provides co-stimulatory signal for T-cell growth. CD5 plays an important role in thymocyte development and also fine-tunes TCR signaling. It is associated with antigen-specific receptor complex expressed on T-cells and B-1a cells and regulates T and B-cell mediated responses. CD5 signaling involves various kinases including PI3K, Src family tyrosine kinases, CKII, Ras GAP, and members of MAPK.
Synonyms:	CD5, LEU1

Product images:

Formalin-Fixed, Paraffin-Embedded Human tonsil stained with CD5 Antibody (Clone CD5/54/F6)