

## Product datasheet for **AM32836PU-S**

### CD5 Mouse Monoclonal Antibody [Clone ID: C5/473]

#### Product data:

Product Type: Primary Antibodies

Clone Name: C5/473

Applications: FC, IF, IHC, IP, WB

Recommended Dilution: **ELISA: Use BSA free Antibody for coating.**

**Flow Cytometry:** 0.5-1 µg/10<sup>6</sup> cells.

**Western Blotting:** 0.5-1 µg/ml.

**Immunofluorescence:** 0.5-1 µg/ml.

**Immunoprecipitation:** 5-10 µl/500 µg protein lysate.

**Immunohistochemistry on Frozen Sections.**

**Immunohistochemistry on 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: Human CD5 recombinant protein.

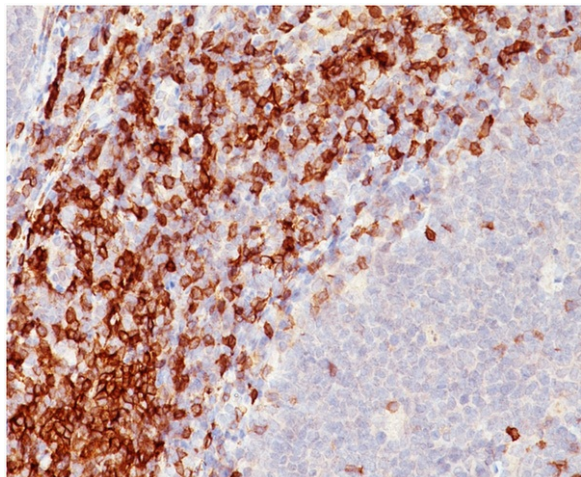
**Specificity:** Recognizes a 67kDa transmembrane protein, which is identified as CD5. The CD5 antigen is found on 95% of thymocytes and 72% of peripheral blood lymphocytes. In lymph nodes, the main reactivity is observed in T cell areas. Anti-CD5 is a pan T-cell marker that also reacts with a range 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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<b>Formulation:</b>	10mM PBS State: Purified State: Liquid purified IgG fraction from Bioreactor Concentrate Stabilizer: 0.05% BSA Preservative: 0.05% Sodium Azide
<b>Concentration:</b>	lot specific
<b>Purification:</b>	Protein A/G Chromatography
<b>Conjugation:</b>	Unconjugated
<b>Storage:</b>	Store undiluted at 2-8°C.
<b>Stability:</b>	Shelf life: one year from despatch.
<b>Predicted Protein Size:</b>	67 kDa
<b>Gene Name:</b>	CD5 molecule
<b>Database Link:</b>	<a href="#">Entrez Gene 921 Human P06127</a>
<b>Background:</b>	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.
<b>Synonyms:</b>	CD5, LEU1

**Product images:**

Formalin-Fixed, Paraffin-Embedded Human tonsil stained with CD5 Antibody (Clone C5/473).