

## CD5 (Mantle Cell Lymphoma Marker) Antibody

Mouse Monoclonal Antibody [Clone CD5/2416]

Catalog No	Format	Size
921-MSM6-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
921-MSM6-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
921-MSM6-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

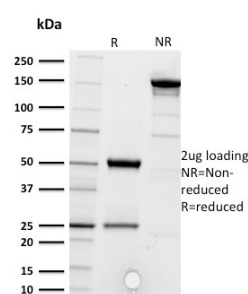
Applications	Tested Dillution	Note
Flow Cytometry (Flow)	1-2ug/million cells	
Immunofluorescence (IF)	1-3ug/ml	
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes
Western Blot (WB)	2-4ug/ml	

### Product Details

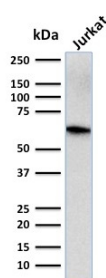
<b>Clone</b>	CD5/2416
<b>Gene Name</b>	CD5
<b>Immunogen</b>	Recombinant fragment of human CD5 protein (around aa 269-366) (exact sequence is proprietary)
<b>Host</b>	Mouse
<b>Clonality</b>	Monoclonal
<b>Isotype / Light Chain</b>	IgG2b / Kappa
<b>Mol. Weight of Antigen</b>	~67kDa
<b>Cellular Localization</b>	Cell membrane
<b>Species Reactivity</b>	Human
<b>Positive Control</b>	293T, Ramos or MOLT-4 cells. Tonsil or Lymph Node.

\*Optimal dilution for a specific application should be determined.

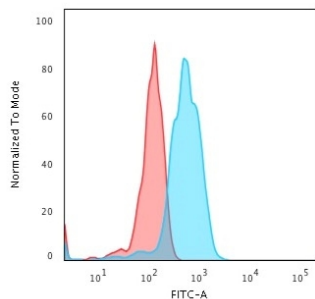
### Product Images for CD5 (Mantle Cell Lymphoma Marker) Antibody



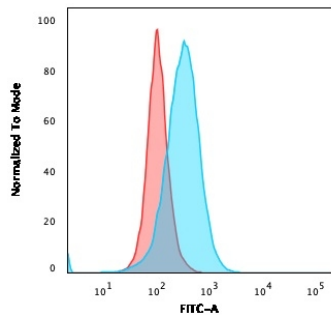
SDS-PAGE Analysis Purified CD5-Monospecific Mouse Monoclonal Antibody (CD5/2416). Confirmation of Purity and Integrity of Antibody.



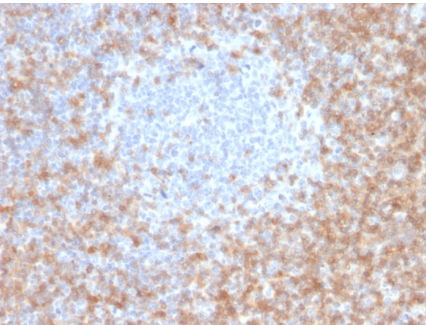
Western Blot Analysis of human Jurkat cell lysate using CD5-Monospecific Mouse Monoclonal Antibody (CD5/2416).



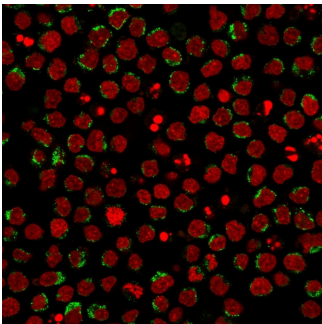
Flow Cytometric Analysis of human Jurkat cells using CD5-Monospecific Mouse Monoclonal Antibody (CD5/2416) followed by goat anti-Mouse IgG-CF488 (Blue); Isotype Control (Red).



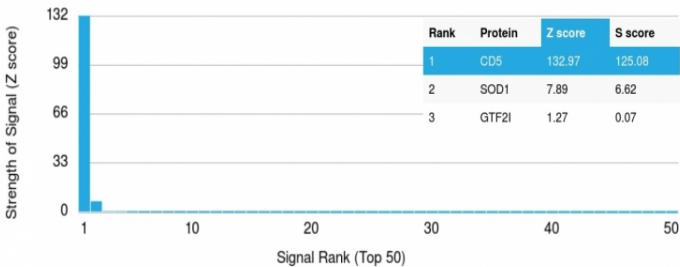
Flow Cytometric Analysis of Ramos cells using CD5-Monospecific Mouse Monoclonal Antibody (CD5/2416) followed by goat anti-Mouse IgG-CF488 (Blue); Isotype Control (Red).



Formalin-fixed, paraffin-embedded human Tonsil stained with CD5-Monospecific Mouse Monoclonal Antibody (CD5/2416).



Immunofluorescent staining of PFA-fixed Ramos cells using CD5-Monospecific Mouse Monoclonal Antibody (CD5/2416) followed by goat anti-Mouse IgG conjugated to CF488 (green). Nuclei are stained with Reddot.



Analysis of Protein Array containing more than 19,000 full-length human proteins using Mouse CD5-Monospecific Monoclonal Antibody (CD5/2416) Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProtTM array. Z-scores are described in units of standard deviations (SD?s) above the mean value of all signals generated on that array. If targets on HuProtTM are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD?s) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to be specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.

### Specificity & Comments

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.

---

### Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis. There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.

---

### Supplied As

200ug/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

---

### Storage and Stability

Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

---

### Research Areas

B Cell Markers, Hematopoietic Stem Cells

---