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36-3495: Anti-CD5 (Mantle Cell Lymphoma Marker) Monoclonal Antibody(Clone: CD5/2418)

Clonality :	Monoclonal
Clone Name :	CD5/2418
Application :	FACS,IF,IHC
Reactivity :	Human
Gene :	CD5
Gene ID :	921
Uniprot ID :	P06127
Alternative Name :	CD5 antigen (p56 62), LEU1, Ly12, LyA, Lymphocyte antigen T1/Leu-1, Lymphocyte glycoprotein T1/Leu1, T-cell surface glycoprotein CD5
Isotype :	Mouse IgG2c, kappa
Immunogen Information :	Recombinant fragment of human CD5 protein (around aa 269-366) (exact sequence is proprietary)

Description

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.

Product Info

Amount :	20 µg / 100 µg
Content :	200 µg/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 condition :	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.

Application Note

Flow Cytometry (1-2ug/million cells);Immunofluorescence (1-2ug/mg); Immunohistochemistry (Formalin-fixed) (1-2ug/ml for 30 minutes 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&degC followed by cooling at RT for 20 minutes);

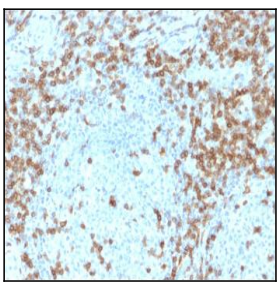


Fig. 1: Formalin-fixed, paraffin-embedded human Tonsil stained with CD5-Monospecific Mouse Monoclonal Antibody (CD5/2418).

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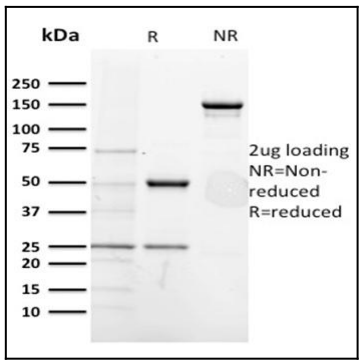


Fig. 2: SDS-PAGE Analysis
Purified CD5-Monospecific Mouse Monoclonal Antibody (CD5/2418). Confirmation of Purity and Integrity of Antibody.

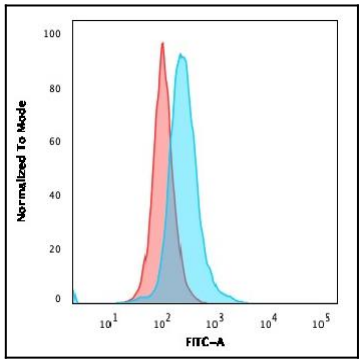


Fig. 3: Flow Cytometric Analysis of PFA-fixed Ramos cells. CD5-Monospecific Mouse Monoclonal Antibody (CD5/2418) followed by Goat anti-Mouse IgG-CF488 (Blue); Isotype Control (Red).

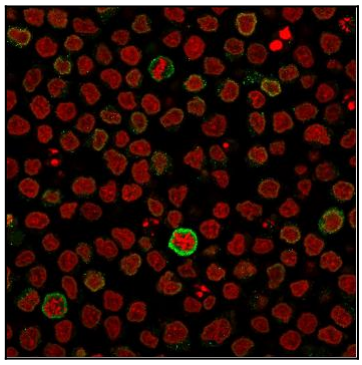


Fig. 4: Immunofluorescent staining of PFA-fixed Ramos cells using CD5-Monospecific Mouse Monoclonal Antibody (CD5/2418) followed by goat anti-Mouse IgG conjµgated to CF488 (green). Nuclei are stained with Reddot.

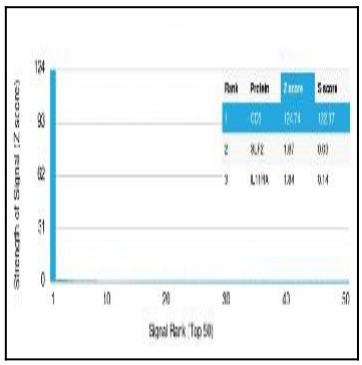


Fig. 5: Analysis of Protein Array containing more than 19,000 full-length human proteins using CD5-Monospecific Mouse Monoclonal Antibody (CD5/2418). Z- and S-Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary 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 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.

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