

Product datasheet for UM500009

CD5 Mouse Monoclonal Antibody [Clone ID: UMAB9]

Product data:

Product Type: Primary Antibodies Clone Name: UMAB9 **Applications:** FC, IF, IHC, WB Recommended Dilution: WB 1:500, IHC 1:100, IF 1:100, FLOW 1:100, IF 1:100 **Reactivity:** Human Host: Mouse Isotype: lgG1 **Clonality:** Monoclonal Full length human recombinant protein of human CD5 (NP_055022) produced in HEK293T Immunogen: cell. Formulation: PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide. Concentration: 0.5~1.0 mg/ml (Lot Dependent) **Purification:** Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G) **Conjugation:** Unconjugated Store at -20°C as received. Storage: Stability: Stable for 12 months from date of receipt. Predicted Protein Size: 54.4 kDa Gene Name: CD5 molecule Database Link: NP 055022 Entrez Gene 921 Human P06127



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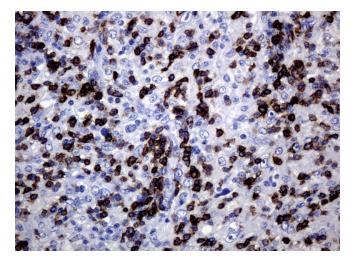
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CD5 Mouse Monoclonal Antibody [Clone ID: UMAB9] – UM500009

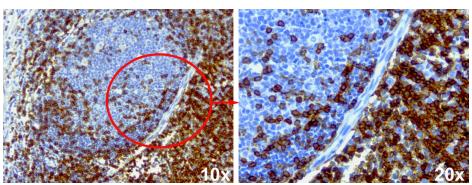
Background: CD5 is a cluster of differentiation found on a subset of lgM-secreting B cells called B-1 cells, and also on T cells. B-1 cells have limited diversity of theirB-cell receptor due to their lack of the enzyme terminal deoxynucleotidyl transferase (TdT) and are potentially self-reactive. CD5 serves to mitigate activating signals from the BCR so that the B-1 cells can only be activated by very strong stimuli (such as bacterial proteins) and not by normal tissue proteins. CD5 is a good immunohistochemical marker for T-cells. About 76% of T-cell neoplasms are reported to express CD5, and it is also found in chronic lymphocytic leukemia, hairy cell leukaemia, and mantle cell lymphoma cells. It is commonly lost in cutaneous T-cell lymphoma, and its absence can be used as an indicator of malignancy in this condition. The absence of CD5 in T cell acute lymphoblastic leukaemia, while relatively rare, is associated with a poor prognosis.

Synonyms:	LEU1; T1
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Hematopoietic cell lineage

Product images:

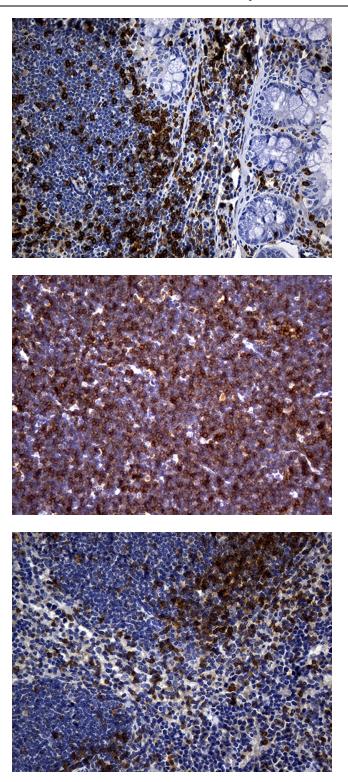


Immunohistochemical staining of paraffinembedded Human lymphoma tissue using anti-CD5 mouse monoclonal antibody. (Clone UMAB9, dilution 1:100; heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min)



Immunohistochemical staining of paraffinembedded human tonsil using anti-CD5 clone UMAB9 mouse monoclonal antibody at 1:200 dilution of 0.1mg/mL detection with Polink2 Broad HRP DAB (UM500009 requires heatinduced epitope retrieval with Citrate pH6.0 at 95-100C 20 minutes. The image shows strong membranous and cytoplasmic staining in >75 % of non germinal center cells of tonsil and <20% of the germinal center cells. No staining was seen in the squamous epithelia cells.

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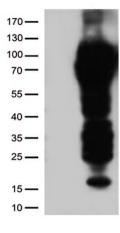


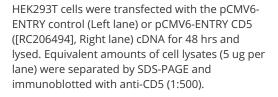
Immunohistochemical staining of paraffinembedded mouse ascending colon tissue using anti-CD5 clone UMAB9 mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris buffer (pH8.5) at 120°C for 3min, UM500009) (1:300).

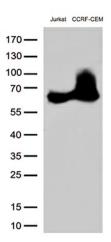
Immunohistochemical staining of paraffinembedded mouse thymus tissue using anti-CD5 clone UMAB9 mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris buffer (pH8.5) at 120°C for 3min, UM500009) (1:300).

Immunohistochemical staining of paraffinembedded mouse spleen tissue using anti-CD5 clone UMAB9 mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris buffer (pH8.5) at 120°C for 3min, UM500009) (1:300).

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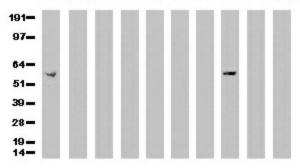






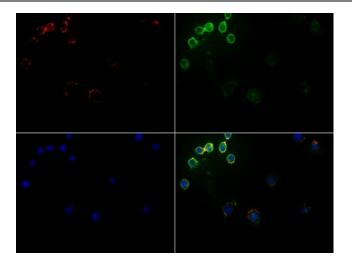
Western blot analysis of extracts (35ug) from 2 cell lines lysates by using anti-CD5 monoclonal antibody (1:500).

Testis Omentum Uterus Breast Brain Liver Ovary Thyroid Colon Spleen

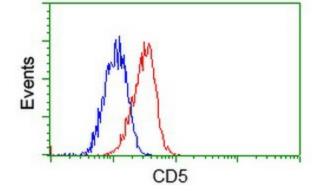


Western Blot analysis of 10 different human tissue lysates (10ug) by using anti-CD5 monoclonal antibody (clone UMAB9, 1:500)

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Immunofluorescent staining of Jurkat cells using CD5 mouse monoclonal antibody (UM500009, green). Actin filaments were labeled with TRITCphalloidin (red), and nuclear with DAPI (blue). The three-color overlay image is located at the bottom-right corner.



Flow cytometric Analysis of Jurkat cells, using anti-CD5 antibody (UM500009), (Red), compared to a nonspecific negative control antibody, (Blue).

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