

**Name: CD5 mouse monoclonal antibody, clone UMAB9**  
**Product Data Sheet - UltraMAB**

**Catalog: UM500009**

Gene Name: Homo sapiens CD5 molecule (CD5)  
GeneBank accession: NM\_014207  
Isotype: IgG1

Reactivity: Human  
Test application: WB  
Clone Name: Clone UMAB9

**Gene Synonym:** LEU1; T1

**Guaranteed Applications:** WB, IHC, IF, FC

**Suggested Dilutions:** WB 1:2000, IHC 1:150, IF 1:100, FLOW 1:100,

**Immunogen:** Full length human recombinant protein of human CD5 (NP\_055022) produced in HEK293T cell.

**Components:**

- CD5 mouse monoclonal antibody, clone UMAB9 (UM500009)

**Amount:**

UM500009 100ul

**Concentration:** 0.5~1.0 mg/ml (Lot Dependent)

**Storage Condition:** Shipped at 4C. Upon delivery store at -20C. Dilute in PBS (pH7.3) before use. Stable for 12 months from date of receipt. Avoid repeated freeze-thaws.

**Buffer:** PBS (PH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.

**Purification:**

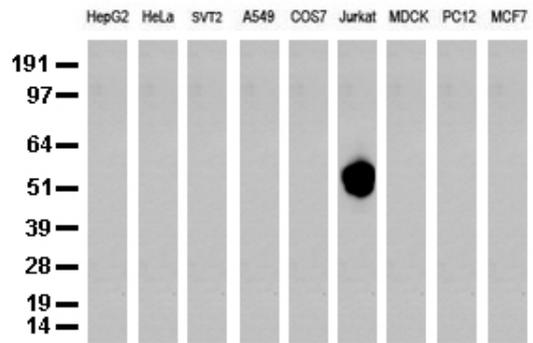
Purified from mouse ascites fluids by affinity chromatography

**Background:**

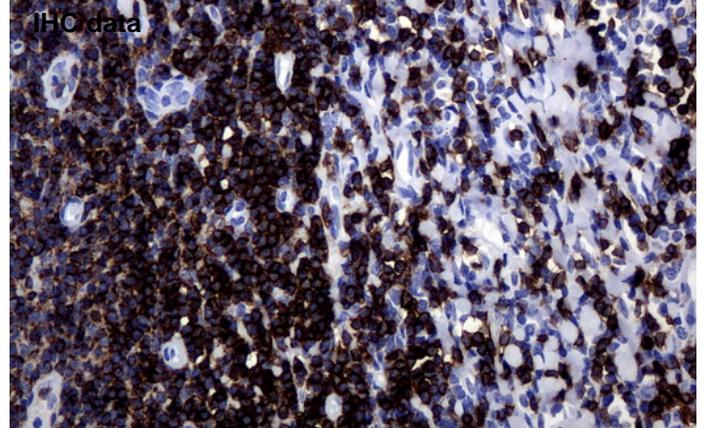
CD5 is a cluster of differentiation found on a subset of IgM-secreting B cells called B-1 cells, and also on T cells. B-1 cells have limited diversity of their B-cell receptor due to their lack of the enzyme terminal deoxynucleotidyl transferase (TdT) and are potentially self-reactive. CD5 serves to 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.

**Validation Data:**

**Western Blot**



Western blot analysis of extracts (35 µg) from 9 different cell lines by using anti-CD5 monoclonal antibody (Clone UMAB9) at 1:500.



Immunohistochemical staining of paraffin-embedded Human tonsil using anti-CD5 mouse monoclonal antibody. (Clone UMAB9, Dilution 1:100)

**Related Product:**

- TrueORF cDNA clones
- VERIFY Tagged Antigen lysates
- HuSH-29 shRNA
- Western Blot reagents
- Anti-myc/DDK tag antibodies

\* Peptide sequence of the DDK-tag (Flag®): N-DYKDDDDK-C Flag® is a registered trademark of Sigma-Aldrich

\* More validation images may be available on our website:

<http://www.origene.com/antibody/UM500009.aspx>

**This product is to be used for laboratory only. Not for diagnostic or therapeutic use.**