

Product datasheet for **UM500071CF**

CD19 Mouse Monoclonal Antibody [Clone ID: UMAB103]

Product data:

Product Type:	Primary Antibodies
Clone Name:	UMAB103
Applications:	FC, IHC, WB
Recommended Dilution:	IHC 1:100
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human CD19(NP_001761) produced in HEK293T cell.
Formulation:	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
Reconstitution Method:	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	60.9 kDa
Gene Name:	CD19 molecule
Database Link:	NP_001761 Entrez Gene 930 Human P15391



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Background: Lymphocytes proliferate and differentiate in response to various concentrations of different antigens. The ability of the B cell to respond in a specific, yet sensitive manner to the various antigens is achieved with the use of low-affinity antigen receptors. This gene encodes a cell surface molecule which assembles with the antigen receptor of B lymphocytes in order to decrease the threshold for antigen receptor-dependent stimulation. [provided by RefSeq, Jul 2008]

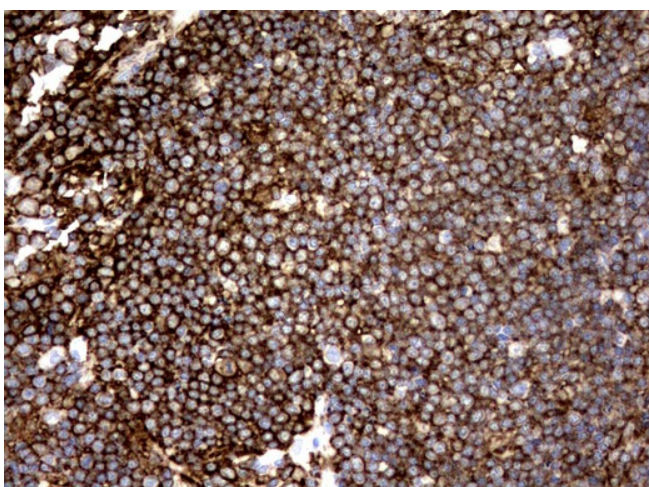
Synonyms: B4; CVID3

Note: This antibody is the same clone with TA506236.

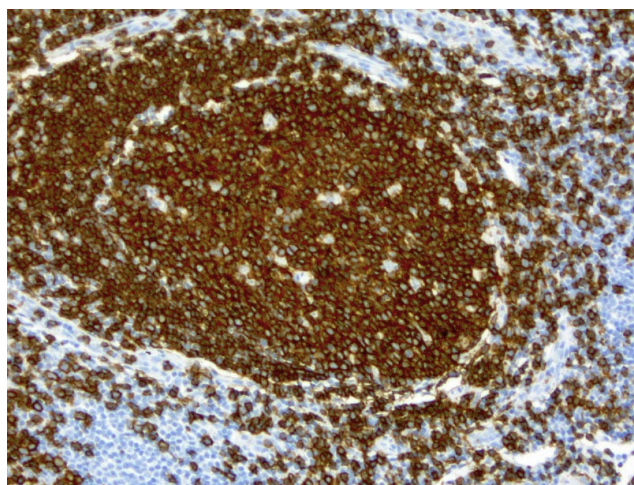
Protein Families: Druggable Genome, Transmembrane

Protein Pathways: B cell receptor signaling pathway, Hematopoietic cell lineage, Primary immunodeficiency

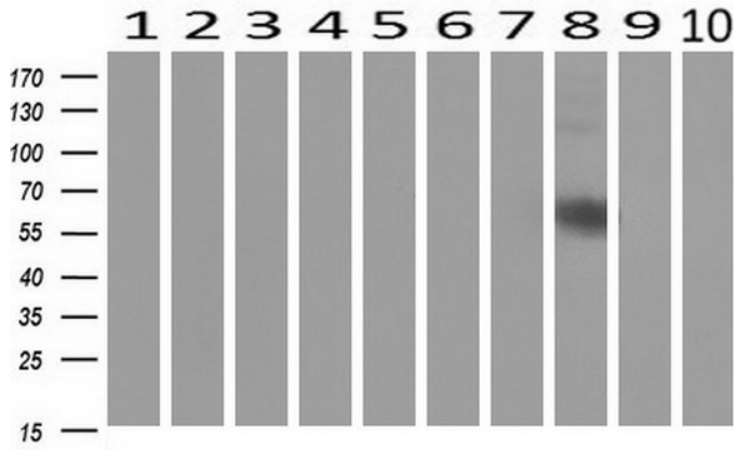
Product images:



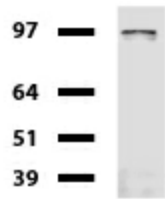
Immunohistochemical staining of paraffin-embedded Human lymph node tissue using anti-CD19 mouse monoclonal antibody. ([UM500071]; heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min)



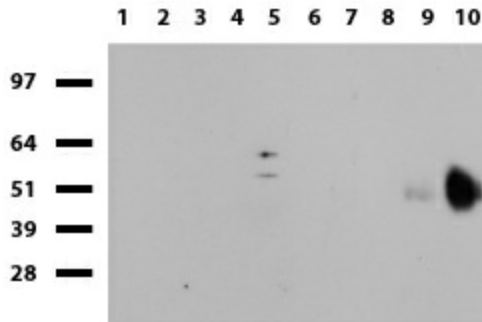
Immunohistochemical staining of paraffin-embedded human tonsil using anti-CD19 clone UMAB103 mouse monoclonal antibody at 1:200 dilution of 0.6mg/mL and detection with Polink2 Broad HRP DAB. [UM500071] requires heat-induced epitope retrieval with citrate pH6.0 at 95-100C 20 minutes. The image shows strong membranous and cytoplasmic staining in >40 % of non germinal center cells of tonsil and >90% of the germinal center cells. No staining was seen in the squamous epithelia cells.



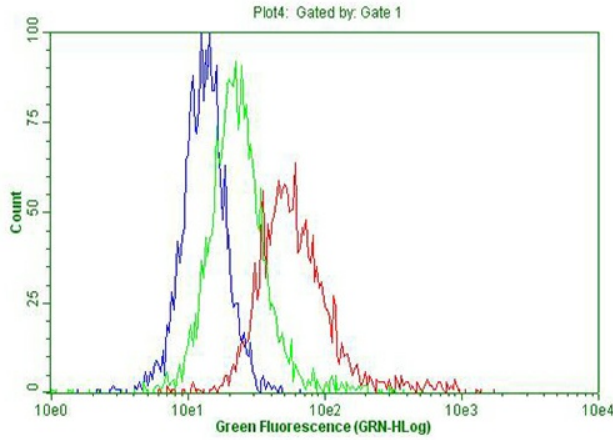
Western blot analysis of extracts (10ug) from 10 Human tissue by using anti-CD19 monoclonal antibody at 1:500 (1: Testis; 2: Omentum; 3: Uterus; 4: Breast; 5: Brain; 6: Liver; 7: Ovary; 8: Thyroid gland; 9: colon;10: spleen).



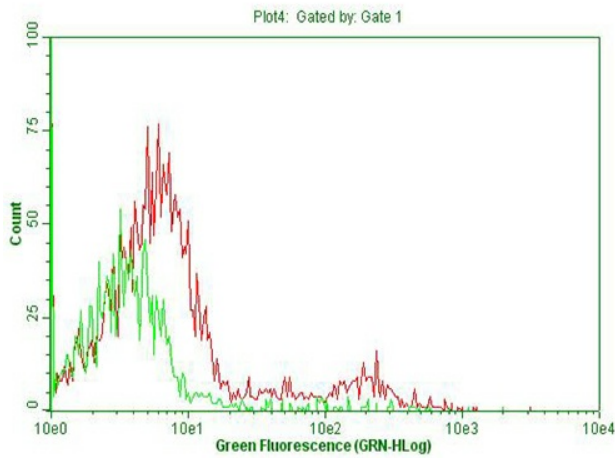
Western blot of cell lysates (35ug) from Jurkat. Diluation: 1:500



Western blot of human tissue lysates (15ug) from 10 different tissues (1: Testis, 2: Omentum, 3: Uterus, 4: Breast, 5: Brain, 6: Liver, 7: Ovary, 8: Thyroid 9: Colon, 10: Spleen). Diluation: 1:500.



Flow Cytometric analysis of viable B-Cell Lymphoma cell line (Raji) using anti-CD19 antibody (UM500071-red histogram), compared to isotype control antibody (anti-DDK TA180144-green histogram), and no antibody control PBS (blue histogram). (CD19 titer 1:20)



Flow Cytometric analysis of viable human peripheral blood mononuclear cells (PBMCs) using anti-human CD19 antibody (UM500071-red histogram), compared to isotype control antibody (anti-DDK [TA180144] - green histogram). (CD19 titer 1:20)