

Product datasheet for **CF506236**

CD19 Mouse Monoclonal Antibody [Clone ID: OTI3B10]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI3B10
Applications:	FC, IF, IHC, WB
Recommended Dilution:	WB 1:4000, IHC 1:150, IF 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:	Homo sapiens CD19 molecule (CD19), transcript variant 2, mRNA.
Database Link:	NP_001761 Entrez Gene 930 Human P15391



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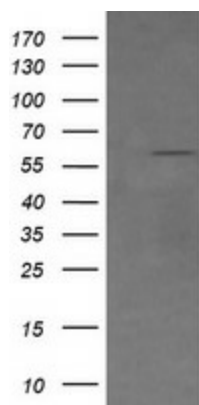
Background: Lymphocytes proliferate and differentiate in response to various concentrations of different antigens. The ability of the B cell to respond in a specific, yet sensitive manner to the various antigens is achieved with the use of low-affinity antigen receptors. This gene encodes a cell surface 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

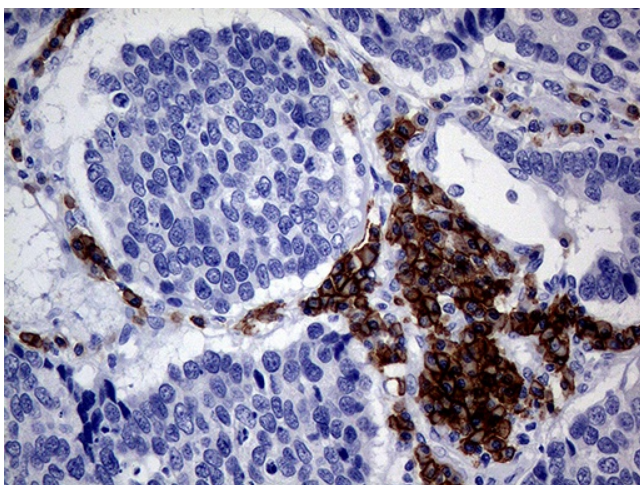
Protein Families: Druggable Genome, Transmembrane

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

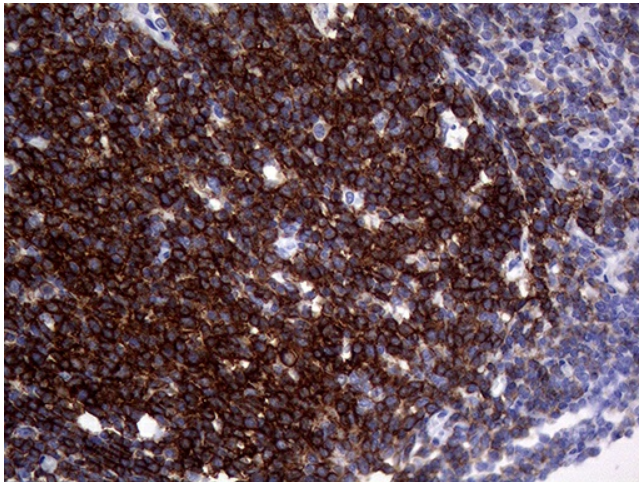
Product images:



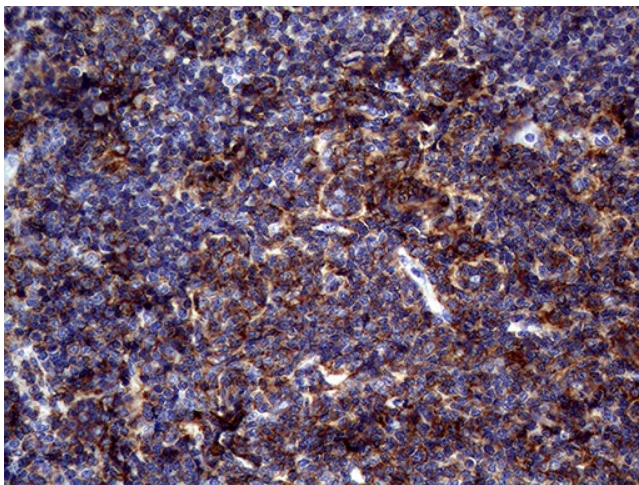
HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY CD19 (Cat# [RC202922], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-CD19 (Cat# [TA506236]). Positive lysates [LY400678] (100ug) and [LC400678] (20ug) can be purchased separately from OriGene.



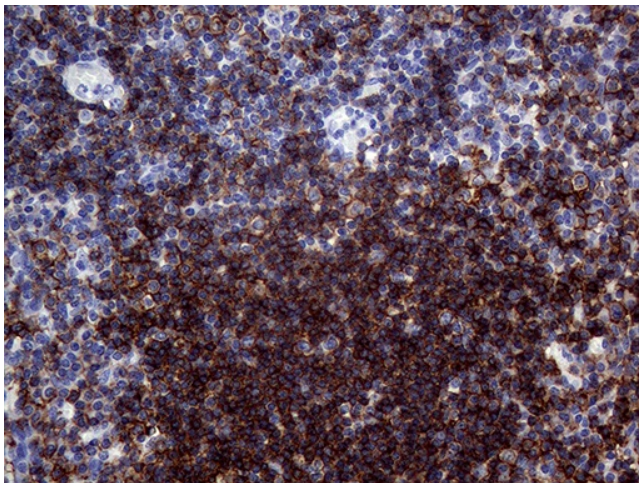
Immunohistochemical staining of paraffin-embedded Carcinoma of Human lung tissue using anti-CD19 mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris buffer (pH8.0) at 120°C for 3min, [TA506236]) (1:600)



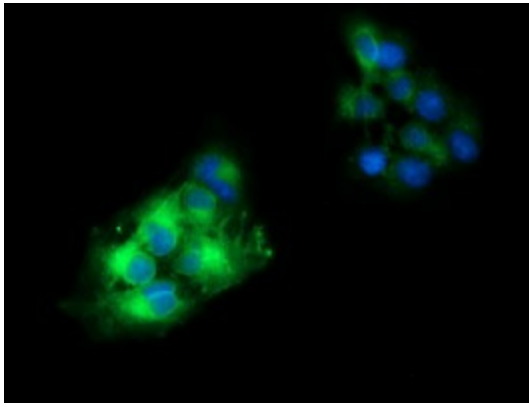
Immunohistochemical staining of paraffin-embedded Human lymph node tissue within the normal limits using anti-CD19 mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris buffer (pH8.0) at 120°C for 3min, [TA506236]) (1:600)



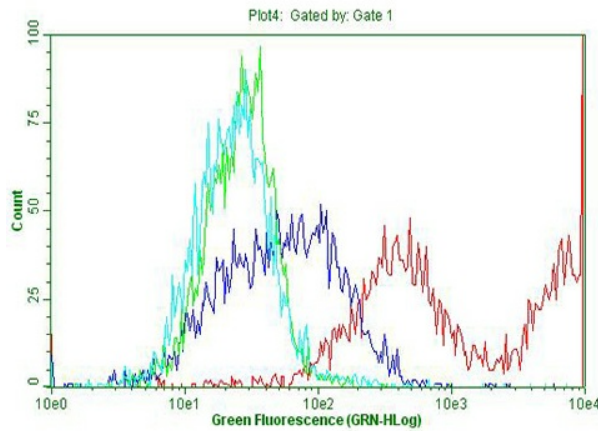
Immunohistochemical staining of paraffin-embedded Human lymphoma tissue using anti-CD19 mouse monoclonal antibody. ([TA506236]; heat-induced epitope retrieval by 1mM EDTA in 10mM Tris, pH8.5, 120°C for 3min)



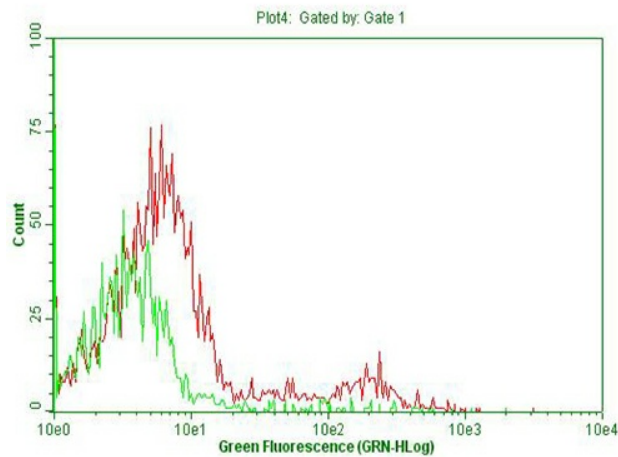
Immunohistochemical staining of paraffin-embedded Human tonsil within the normal limits using anti-CD19 mouse monoclonal antibody. ([TA506236]; heat-induced epitope retrieval by 1mM EDTA in 10mM Tris, pH8.5, 120°C for 3min)



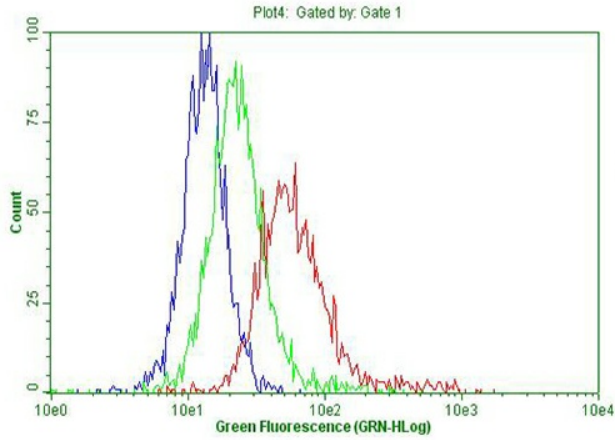
Anti-CD19 mouse monoclonal antibody ([TA506236]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY CD19 ([RC202922]).



Living HEK293T cells transfected with either CD19 ([RC202922]) overexpression plasmid or empty vector control plasmid were immunostained by either anti-CD19 antibody ([TA506236]) or a nonspecific negative control antibody ([TA180143]) and then analyzed by flow cytometry. CD19 (red) or empty vector (blue) transfected cells with anti-CD19 antibody. CD19 (green) or empty vector (aqua) transfected cells with control antibody (1:100).



Flow cytometric Analysis of living RBC-lysed human peripheral blood cells, using anti-human CD19 antibody ([TA506236]), (Red), compared to a nonspecific negative control antibody ([TA180144]), (green) and PBS, (blue) (1:20).



Flow cytometric Analysis of living Raji cells, using anti-CD19 antibody ([TA506236]), (Red), compared to a nonspecific negative control antibody [TA180143], (green), or PBS (blue) (1:20).