

For Research Use Only

CD19 Monoclonal antibody

Catalog Number: 66298-1-Ig **10 Publications**



Basic Information

Catalog Number: 66298-1-Ig	GenBank Accession Number: BC006338	Purification Method: Protein A purification
Size: 150ul , Concentration: 1500 ug/ml by 930 Nanodrop and 1000 ug/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 930	CloneNo.: 1C10A1
Source: Mouse	ENSEMBL Gene ID: ENSG00000177455	Recommended Dilutions: WB 1:1000-1:4000 IHC 1:500-1:2000 IF/ICC 1:750-1:3000
Isotype: IgG1	UNIPROT ID: P15391	
Immunogen Catalog Number: AG19945	Full Name: CD19 molecule	
	Calculated MW: 556 aa, 61 kDa	
	Observed MW: 95 kDa	

Applications

Tested Applications: WB, IHC, IF/ICC, ELISA	Positive Controls: WB : Raji cells, Ramos cells, Daudi cells
Cited Applications: WB, IHC, IF	IHC : human tonsillitis tissue,
Species Specificity: human	IF/ICC : Raji cells,
Cited Species: human, mouse, rat	
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	

Background Information

CD19 is a 95 kDa type I transmembrane glycoprotein belonging to the immunoglobulin superfamily (PMID: 2472450). It is expressed by B cells and follicular dendritic cells. CD19 is up-regulated at the step of B-lineage commitment during the differentiation of the hematopoietic stem cell, it remains on during subsequent stages of differentiation until finally down-regulated during terminal differentiation into plasma cells (PMID: 8528044). CD19 is involved in B cell development, activation and differentiation. It is the dominant component for the signaling complex on B cells that includes CD21 (CR2), CD81 (TAPA-1) and CD225 and acts as a critical co-receptor for BCR signal transduction (PMID: 23210908).

Notable Publications

Author	Pubmed ID	Journal	Application
Xiaomin Lu	34700112	Int Immunopharmacol	IHC
Xinying Tang	32454143	Cancer Lett	WB
Liqiong Chen	35513753	In Vitro Cell Dev Biol Anim	WB

Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

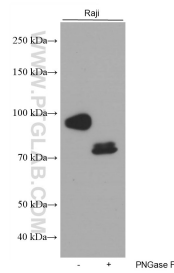
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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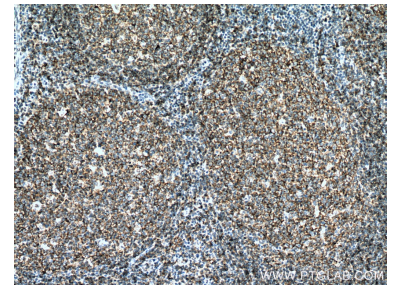
Selected Validation Data



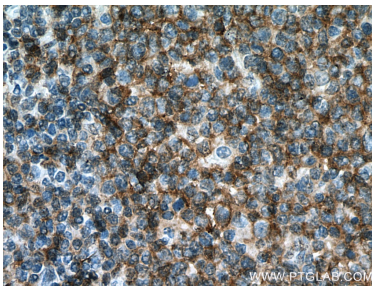
Raji cells were subjected to SDS PAGE followed by western blot with 66298-1-Ig (CD19 Antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



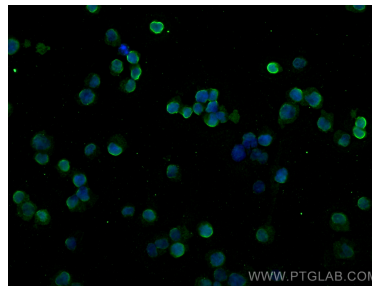
Untreated and PNGase F-treated lysates of Raji cells were subjected to SDS PAGE followed by western blot with 66298-1-Ig (CD19 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours. PNGase F was obtained from Atagenix (cat.NO. ata808).



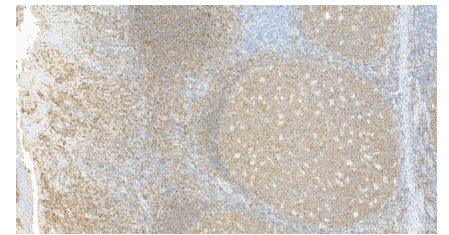
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 66298-1-Ig (CD19 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 66298-1-Ig (CD19 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed Raji cells using CD19 antibody (66298-1-Ig, Clone: 1C10A1) at dilution of 1:1500 and CoraLite@488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 66298-1-Ig (CD19 antibody) at dilution of 1:5000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).