For Research Use Only

CD19 Monoclonal antibody, PBS Only

Catalog Number:66298-1-PBS

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Antibodies | ELISA kits | Proteins
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Basic Information

Catalog Number:
66298-1-PBS

Size:
100ug , Concentration: 1 mg/ml by Nanodrop;

Source:
Mouse

Isotype:
IgG1

Immunogen Catalog Number:
AG19945

GenBank Accession Number:
BC006338

GeneID (NCBI):
930

ENSEMBL Gene ID:
ENSG00000177455

UNIPROT ID:
P15391

Full Name:
CD19 molecule

Calculated MW:
556 aa, 61 kDa

Observed MW:
95 kDa

Purification Method:
Protein A purification

CloneNo.:
1C10A1

Applications

Tested Applications:
WB, IHC, IF/ICC, ELISA

Species Specificity:
human

Background Information

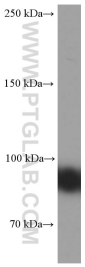
CD19 is a 95 kDa type I transmembrane glycoprotein belonging to the immunoglobulin superfamily (PMID: 2472450). It is expressed by B cells and follicular dendritic cells. CD19 is up-regulated at the step of B-lineage commitment during the differentiation of the hematopoietic stem cell, it remains on 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).

Storage

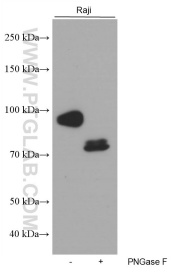
Storage:
Store at -80°C.
Storage Buffer:
PBS Only

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
W: ptglab.com

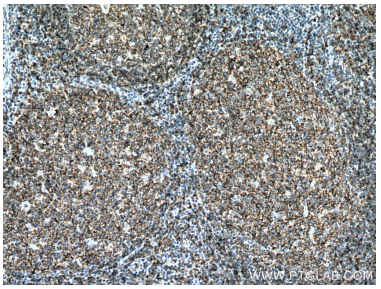
Selected Validation Data



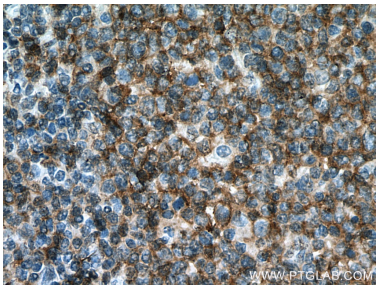
Raji cells were subjected to SDS PAGE followed by western blot with 66298-1-Ig (CD19 Antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 66298-1-PBS in a different storage buffer formulation.



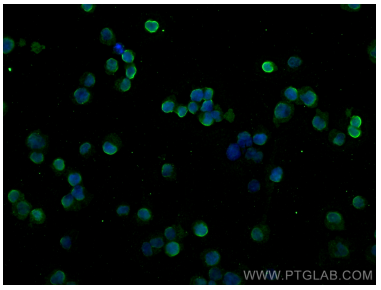
Untreated and PNGase F-treated lysates of Raji cells were subjected to SDS PAGE followed by western blot with 66298-1-Ig (CD19 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours. PNGase F was obtained from Atagenix (cat.NO. ata808). This data was developed using the same antibody clone with 66298-1-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 66298-1-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 66298-1-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 66298-1-PBS in a different storage buffer formulation.

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). This data was developed using the same antibody clone with 66298-1-PBS in a different storage buffer formulation.