

For Research Use Only

CD21 Polyclonal antibody

Catalog Number: 24374-1-AP

4 Publications



Basic Information

Catalog Number: 24374-1-AP	GenBank Accession Number: BC136394	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 450 ug/ml by Nanodrop;	GeneID (NCBI): 1380	Recommended Dilutions: WB 1:500-1:1000 IHC 1:20-1:200
Source: Rabbit	ENSEMBL Gene ID: ENSG00000117322	
Isotype: IgG	UNIPROT ID: P20023	
Immunogen Catalog Number: AG18058	Full Name: complement component (3d/Epstein Barr virus) receptor 2	
	Calculated MW: 1092 aa, 119 kDa	
	Observed MW: 145 kDa	

Applications

Tested Applications: WB, IHC, ELISA	Positive Controls:
Cited Applications: IHC, IF	WB : Raji cells,
Species Specificity: human	IHC : human tonsillitis tissue,
Cited Species: human	
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

CD21, also known as complement receptor type 2 (CR2), complement C3d receptor, and Epstein-Barr virus receptor, is a transmembrane protein that contains a small cytoplasmic domain, a transmembrane region and an extracellular domain consisting of 15 tandem short consensus repeat sequences (PMID: 6230668; 2551147). It is expressed on B cells, follicular dendritic cells, thymocytes and a subset of peripheral T cells (PMID: 26119182). CD21 binds complement fragments C3d, C3dg and iC3b and acts as a receptor for the Epstein-Barr virus (PMID: 7753047). On B cells, together with CD19 and CD81, CD21 forms a complex that functions as a co-receptor to the BCR (PMID: 7542009). It is involved in B cells activation and functions.

Notable Publications

Author	Pubmed ID	Journal	Application
Johannes Griss	31519915	Nat Commun	IF
Franziska Werner	34248957	Front Immunol	IHC IF
Zhouliang Bian	39528470	Cell Death Dis	IHC

Storage

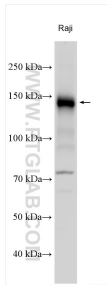
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

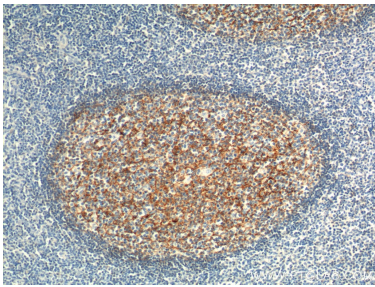
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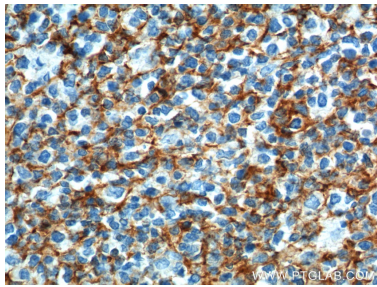
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 24374-1-AP (CD21 antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 24374-1-AP (CD21 antibody at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 24374-1-AP (CD21 antibody at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).