

For Research Use Only

CD21 Recombinant monoclonal antibody

Catalog Number: 87097-1-RR



Basic Information

Catalog Number: 87097-1-RR	GenBank Accession Number: NM_001877.5	Purification Method: Protein A purification
Source: Rabbit	GeneID (NCBI): 1380	CloneNo.: 252181F1
Isotype: IgG	ENSEMBL Gene ID: ENSG00000117322	Recommended Dilutions: WB: 1:1000-1:4000
Immunogen Catalog Number: EG2980	UNIPROT ID: P20023-1	
	Full Name: complement component (3d/Epstein Barr virus) receptor 2	
	Calculated MW: 113 kDa	
	Observed MW: 150 kDa	

Applications

Tested Applications: WB, ELISA	Positive Controls:
Species Specificity: human	WB : Raji cells,

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.

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

For technical support and original validation data for this product please contact:

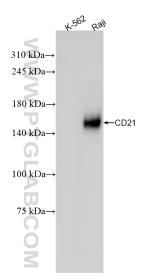
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E: Proteintech-CN@ptglab.com

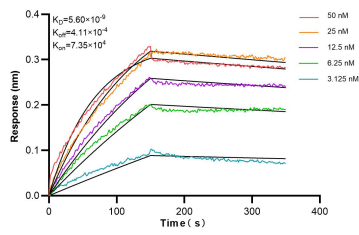
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Selected Validation Data



Raji cells were subjected to SDS PAGE followed by western blot with 87097-1-RR (CR2 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Biolayer interferometry (BLI) kinetic assays of 87097-1-RR against Human CD21 were performed. The affinity constant is 5.60 nM.