

For Research Use Only

CD83 Polyclonal antibody

Catalog Number: 27873-1-AP



Basic Information

Catalog Number: 27873-1-AP	GenBank Accession Number: BC030830	Purification Method: Antigen affinity purification
Concentration: 450 ug/ml	GeneID (NCBI): 9308	Recommended Dilutions: WB 1:500-1:2000 IHC 1:500-1:2000
Source: Rabbit	ENSEMBL Gene ID: ENSG00000112149	
Isotype: IgG	UNIPROT ID: Q01151	
Immunogen Catalog Number: AG27467	Full Name: CD83 molecule	
	Calculated MW: 205 aa, 23 kDa	
	Observed MW: 37-50kDa, 23kDa	

Applications

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

Background Information

CD83 is a member of the immunoglobulin (Ig) superfamily, consisting of an extracellular V-type Ig-like domain, a transmembrane domain, and a cytoplasmic tail. CD83 is one of the most prominent markers for fully matured dendritic cells (DCs) (PMID: 17334966). It is also found on the surface of other activated hematopoietic cells, including lymphocytes, monocytes, macrophages, and neutrophils (PMID: 31231400; 17334966). CD83 regulates the maturation, activation, and homeostasis of numerous immune cells (PMID: 31231400; 32362900). CD83 can also be expressed as a soluble form. Soluble CD83 can bind to DCs and inhibit their maturation (PMID: 17334966; 12403928). PNGase F (peptide N-glycosidase F) digestion reduced the 37 and 50 kDa CD83 forms to 28 kDa (PMID: 15320871).

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:

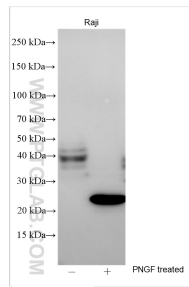
T: 4006900926

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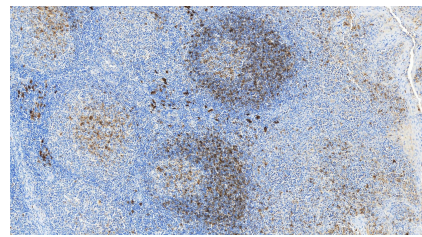
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Selected Validation Data



Untreated and PNGF treated Raji cells were subjected to SDS PAGE followed by western blot with 27873-1-AP (CD83 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 27873-1-AP (CD83 antibody) at dilution of 1:1000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).