

For Research Use Only

CD55 Recombinant antibody

Catalog Number: 82781-6-RR



Basic Information

Catalog Number: 82781-6-RR	GenBank Accession Number: BC001288	Purification Method: Protein A purification
Size: 100ul , Concentration: 500 ug/ml by Nanodrop;	GeneID (NCBI): 1604	CloneNo.: 2D2
Source: Rabbit	UNIPROT ID: P08174	Recommended Dilutions: WB 1:2000-1:10000 IHC 1:200-1:800
Isotype: IgG	Full Name: CD55 molecule, decay accelerating factor for complement (Cromer blood group)	
Immunogen Catalog Number: AG25026	Calculated MW: 41 kDa	
	Observed MW: 75 kDa	

Applications

Tested Applications: WB, IHC, ELISA	Positive Controls:
Species Specificity: Human	WB : HeLa cells, A549 cells, MKN-45 cells, human placenta tissue, K-562 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 lung cancer tissue, human placenta tissue

Background Information

CD55, also known as DAF, is a glycosylphosphatidylinositol (GPI)-anchored surface glycoprotein that is widely distributed on blood, stroma, epithelial, and endothelial cells (PMID: 7517044; 29503741). It can also exist as a soluble form in plasma, urine, saliva, tears, and synovial fluids (PMID: 29503741). CD55 is a complement regulatory protein (PMID: 2469439; 7517044). It inhibits formation of the C3 convertases through binding to C3b and C4b. It also binds the alternate pathway convertase C3bBb, the classical pathway convertase and C4b2a to accelerate their decay (PMID: 17289551). CD55 also serves as a receptor for coxsackieviruses B1, B3, and B5 and several enteroviruses (PMID: 7538177; 7517044). The observed molecular weight of mature CD55 varies between 50 to 100 kDa depending on the cell type. Different sizes of CD55 might be caused by alternative splicing or different glycosylation patterns (PMID: 29503741).

Storage

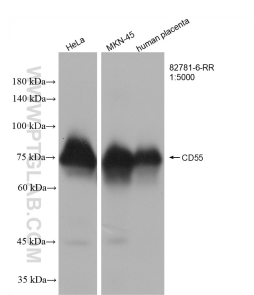
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

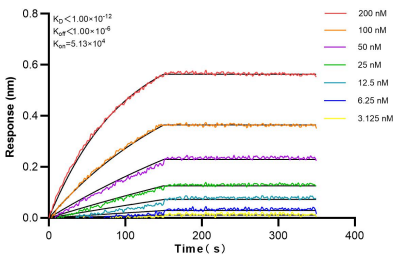
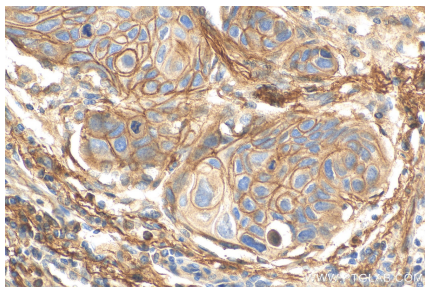
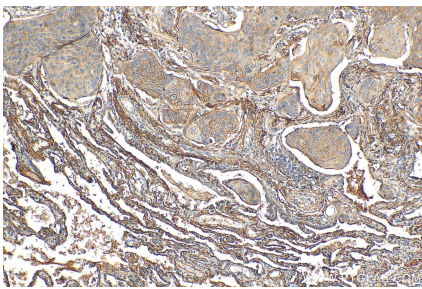
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 82781-6-RR (CD55 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Biolayer interferometry (BLI) kinetic assays of 82781-6-RR against Human CD55 were performed. The affinity constant is below 1 pM.