

For Research Use Only

CD55 Recombinant antibody, PBS Only



Catalog Number: 82781-6-PBS

Basic Information

Catalog Number: 82781-6-PBS	GenBank Accession Number: BC001288	Purification Method: Protein A purification
Size: 1mg/ml	GeneID (NCBI): 1604	CloneNo.: 2D2
Source: Rabbit	UNIPROT ID: P08174	
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, Indirect ELISA

Species Specificity:
Human

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 -80°C.
The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

Storage Buffer:
PBS Only

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

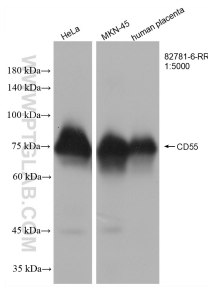
T: 4006900926

E: Proteintech-CN@ptglab.com

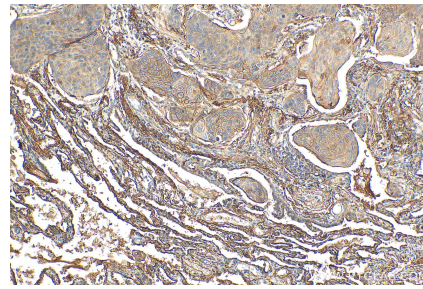
W: ptgcn.com

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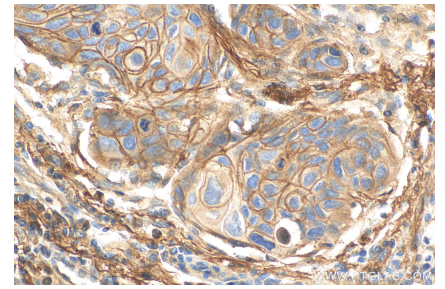
Selected Validation Data



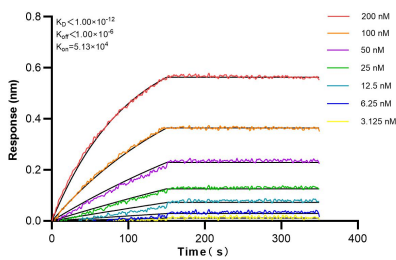
Various lysates were subjected to SDS PAGE followed by western blot with 82781-6-RR (CD55 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 82781-6-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 82781-6-RR (CD55 antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 82781-6-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 82781-6-RR (CD55 antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 82781-6-PBS in a different storage buffer formulation.



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