

For Research Use Only

CD97 Recombinant antibody

Catalog Number: 84255-6-RR



Basic Information

Catalog Number: 84255-6-RR	GenBank Accession Number: BC026690	Purification Method: Protein A purification
Size: 100ul, Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI): 976	CloneNo.: 241335A11
Source: Rabbit	UNIPROT ID: P48960	Recommended Dilutions: WB 1:5000-1:50000 IHC 1:500-1:2000 IF/ICC 1:200-1:800
Isotype: IgG	Full Name: CD97 molecule	
	Calculated MW: 722 aa, 79 kDa	
	Observed MW: 75 kDa	

Applications

Tested Applications:
WB, IHC, IF/ICC, ELISA

Species Specificity:
human

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB: U-937 cells, DU 145 cells, BGC-823 cells, SGC-7901 cells, HL-60 cells

IHC: human tonsillitis tissue,

IF/ICC: Jurkat cells,

Background Information

CD97 is a member of the seven-trans-membrane subfamily of the class B G protein-coupled receptor (GPCR) group of the epidermal growth factor (EGF) and is present on the surface of lymphocytes, monocytes, macrophages, dendritic cells, granulocytes, and smooth muscle, being a dimeric glycoprotein with a 75-90 kDa intracellular domain and a 28 kDa extracellular domain (PMID: 23969601). It plays a vital role in cell adhesion, migration, and cell connection regulation (PMID: 36464675). CD97 is expressed on T-cells, but rarely on B cells. CD97 might play key roles in cellular adhesion, through connections with other proteins of the cell surface and of the extracellular matrix (PMID: 32781778).

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

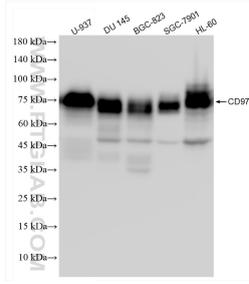
For technical support and original validation data for this product please contact:

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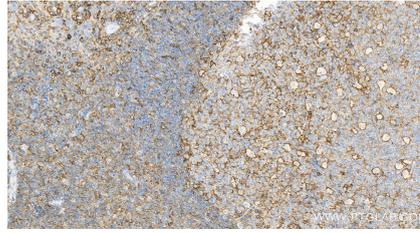
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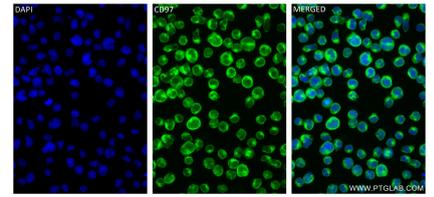
Selected Validation Data



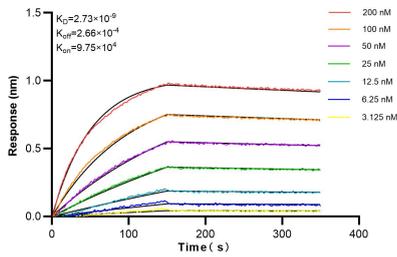
Various lysates were subjected to SDS PAGE followed by western blot with 84255-6-RR (CD97 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 84255-6-RR (CD97 antibody) at dilution of 1:0 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed Jurkat cells using CD97 antibody (84255-6-RR, Clone: 241335A11) at dilution of 1:400 and CoraLite@488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).



Biolayer interferometry (BLI) kinetic assays of 84255-6-RR against Human CD97 were performed. The affinity constant is 2.73 nM.