

For Research Use Only

CD97 Monoclonal antibody

Catalog Number: 66972-1-Ig **1 Publications**



Basic Information

Catalog Number: 66972-1-Ig	GenBank Accession Number: BC026690	Purification Method: Protein A purification
Size: 150ul , Concentration: 1800 ug/ml by 976 Nanodrop and 1000 ug/ml by Bradford method using BSA as the standard;	GeneID (NCBI): P48960	CloneNo.: 3F10C2
Source: Mouse	UNIPROT ID: P48960	Recommended Dilutions: WB 1:1000-1:4000 IF/ICC 1:400-1:1600
Isotype: IgG2a	Full Name: CD97 molecule	
Immunogen Catalog Number: AG27991	Calculated MW: 722 aa, 79 kDa	
	Observed MW: 75 kDa	

Applications

Tested Applications: WB, IF/ICC, ELISA	Positive Controls: WB : K-562 cells, HepG2 cells, HL-60 cells, DC2.4 cells IF/ICC : Jurkat cells,
Cited Applications: WB, IF	
Species Specificity: Human, Mouse	
Cited Species: human, mouse	

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).

Notable Publications

Author	Pubmed ID	Journal	Application
Wen Wang	38311610	Int J Oral Sci	WB,IF

Storage

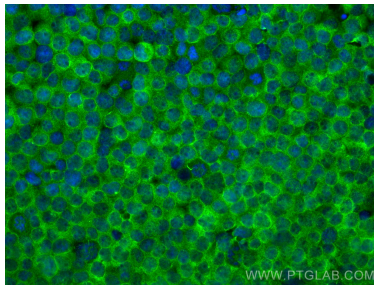
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

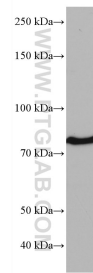
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed Jurkat cells using CD97 antibody (66972-1-Ig, Clone: 3F10C2) at dilution of 1:800 and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L).



K-562 cells were subjected to SDS PAGE followed by western blot with 66972-1-Ig (CD97 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.