

For Research Use Only

CD109 Monoclonal antibody

Catalog Number: 60179-1-Ig **3 Publications**



Basic Information

Catalog Number: 60179-1-Ig	GenBank Accession Number: BC152996	Purification Method: Caprylic acid/ammonium sulfate precipitation
Size: 150ul , Concentration: 1300 ug/ml by Nanodrop and 1000 ug/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 135228	CloneNo.: 2H8G7
Source: Mouse	UNIPROT ID: Q6YHK3	Recommended Dilutions: WB 1:1000-1:8000
Isotype: IgG1	Full Name: CD109 molecule	
	Calculated MW: 162 kDa	
	Observed MW: 162 kDa	

Applications

Tested Applications: WB, ELISA	Positive Controls: WB : Jurkat cells,
Cited Applications: WB, IHC	
Species Specificity: human	
Cited Species: human	

Background Information

CD109, also named as CPAMD7, is a member of the alpha2-macroglobulin/complement superfamily. It is a glycosylphosphatidylinositol (GPI)-linked cell surface glycoprotein of approximately 170kd which is found on the cell surface of platelets, activated T-cells, and endothelial cells. CD109 binds to and negatively regulates signaling of transforming growth factor beta (TGF-beta). CD109 has been identified as part of the TGF-beta receptor system in human keratinocytes. Up regulation of CD109 expression has been observed in several different types of tumor. CD109 is a glycosyl-phosphatidylinositol-anchored glycoprotein that is a member of the alpha2-macroglobulin/C3, C4, C5 family of thioester-containing proteins. There're 2 forms of 150 (p150) and 120 kDa (p120) exist due to proteolytic degradation from a 180 kDa form. The antibody can recognize all these 4 isoforms.

Notable Publications

Author	Pubmed ID	Journal	Application
Tobias Fretwurst	31877027	Clin Oral Implants Res	WB
Junyu Fan	31403228	Drug Dev Res	
Yunyan Liu	37378424	Mol Carcinog	IHC

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
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



Jurkat cells were subjected to SDS PAGE followed by western blot with 60179-1-Ig (CD109 Antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.