

For Research Use Only

CD109 Recombinant antibody

Catalog Number: 85924-4-RR



Basic Information

Catalog Number:	85924-4-RR	GenBank Accession Number:	NM_133493.5	Purification Method:	Protein A purification
Size:	100ul, Concentration: 1000 µg/ml by Nanodrop;	GenID (NCBI):	135228	CloneNo.:	250327A11
Source:	Rabbit	UNIPROT ID:	Q6YHK3-1	Recommended Dilutions:	WB: 1:5000-1:50000 IHC: 1:400-1:1600
Isotype:	IgG	Full Name:	CD109 molecule		
Immunogen Catalog Number:	EG2673	Calculated MW:	162 kDa		
		Observed MW:	180 kDa		

Applications

Tested Applications:	Positive Controls:
WB, IHC, ELISA	WB: A375 cells, PANC-1 cells
Species Specificity:	IHC: human tonsillitis tissue,

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

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 170kDa 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 a2-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.

Storage

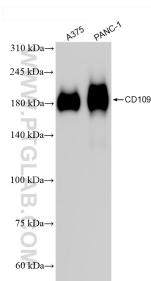
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

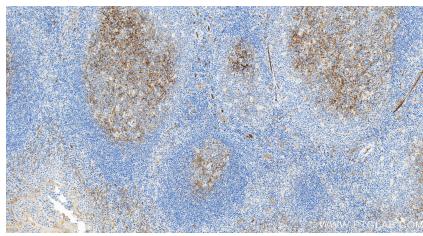
For technical support and original validation data for this product please contact:
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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 85924-4-RR (CD109 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 85924-4-RR (CD109 antibody) at dilution of 1:800 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).