For Research Use Only

CD109 Monoclonal antibody

Catalog Number:60179-1-Ig 3 Publications

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Basic Information

Catalog Number:
60179-1-Ig

Size:
150ul , Concentration: 1300 µg/ml by Nanodrop and 1000 µg/ml by Bradford method using BSA as the standard;

Source:
Mouse

Isotype:
IgG1

GenBank Accession Number:
BC152996

GeneID (NCBI):
135228

Full Name:
CD109 molecule

Calculated MW:
162 kDa

Observed MW:
162 kDa

Purification Method:
Caprylic acid/ammonium sulfate precipitation

CloneNo.:
2H8G7

Recommended Dilutions:
WB 1:1000-1:8000

Applications

Tested Applications:
FC, WB,ELISA

Cited Applications:
IHC, WB

Species Specificity:
human

Cited Species:
human

Positive Controls:

WB : Jurkat cells,

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 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. 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

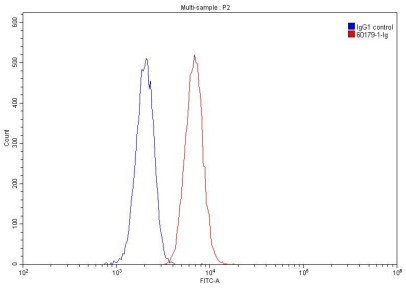
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

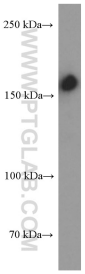
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

Selected Validation Data



1X10^6 Jurkat cells were stained with 0.20ug CD109 antibody (60179-1-Ig, red) and control antibody (blue). Fixed with 90% MeOH.



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.