

For Research Use Only

# CD109 Polyclonal antibody

Catalog Number: 18715-1-AP **1 Publications**



## Basic Information

<b>Catalog Number:</b> 18715-1-AP	<b>GenBank Accession Number:</b> BC152996	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 273 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 135228	<b>Recommended Dilutions:</b> WB 1:500-1:1000
<b>Source:</b> Rabbit	<b>Full Name:</b> CD109 molecule	<b>IP 0.5-4.0 ug for IP and 1:500-1:1000 for WB</b>
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 162 kDa	

## Applications

<b>Tested Applications:</b> IP, WB, ELISA	<b>Positive Controls:</b>
<b>Cited Applications:</b> WB	<b>WB :</b> PC-3 cells,
<b>Species Specificity:</b> human	<b>IP :</b> PC-3 cells,
<b>Cited Species:</b> 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 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
Fengyun Dong	29113239	Oncol Lett	WB

## Storage

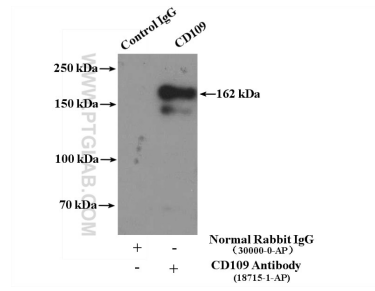
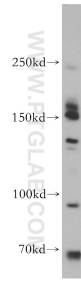
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

**\*\*\* 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



PC-3 cells were subjected to SDS PAGE followed by western blot with 18715-1-AP (CD109 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.

IP Result of anti-CD109 (IP:18715-1-AP, 4ug; Detection:18715-1-AP 1:600) with PC-3 cells lysate 5000ug.