

CD109 Polyclonal antibody

Catalog Number: 18715-1-AP

1 Publications

Basic Information

Catalog Number:

18715-1-AP

Size:

270 µg/ml

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

BC152996

GeneID (NCBI):

135228

UNIPROT ID:

Q6YHK3

Full Name:

CD109 molecule

Calculated MW:

162 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:1000

IP 0.5-4.0 µg for 1.0-3.0 mg of total protein lysate

Applications

Tested Applications:

IP, WB, ELISA

Cited Applications:

WB

Species Specificity:

human

Cited Species:

human

Positive Controls:

WB : PC-3 cells,

IP : PC-3 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 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
Fengyun Dong	29113239	Oncol Lett	WB

Storage

Storage:

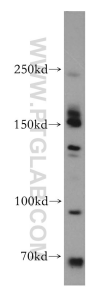
Store at -20°C. Stable for one year after shipment.

Storage Buffer:

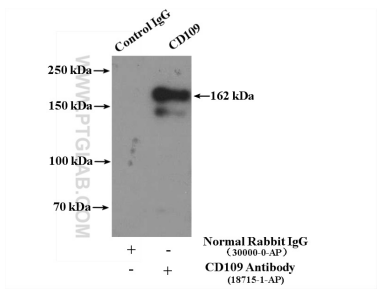
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

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.