

For Research Use Only

# CD109 Monoclonal antibody

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



## Basic Information

**Catalog Number:**

60179-1-Ig

**Size:**

1300 µg/ml

**Source:**

Mouse

**Isotype:**

IgG1

**GenBank Accession Number:**

BC152996

**GeneID (NCBI):**

135228

**UNIPROT ID:**

Q6YHK3

**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 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

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

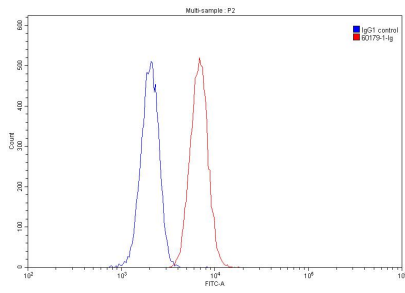
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

W: [ptgcn.com](http://ptgcn.com)

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

## Selected Validation Data



1x10<sup>6</sup> 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.