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# CD109 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP10639a

## Product Information

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| **Application** | WB, E |
| **Primary Accession** | Q6YHK3 |
| **Other Accession** | NP_001153059.1, NP_001153060.1, NP_598000.2 |
| **Reactivity** | Human, Mouse |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Isotype** | Rabbit IgG |
| **Clone Names** | RB28540 |
| **Calculated MW** | 161689 |
| **Antigen Region** | 82-109 |

## Additional Information

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| **Gene ID** | 135228 |
| **Other Names** | CD109 antigen, 150 kDa TGF-beta-1-binding protein, C3 and PZP-like alpha-2-macroglobulin domain-containing protein 7, Platelet-specific Gov antigen, p180, r150, CD109, CD109, CPAMD7 |
| **Target/Specificity** | This CD109 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 82-109 amino acids from the N-terminal region of human CD109. |
| **Dilution** | WB~~1:1000 E~~Use at an assay dependent concentration. |
| **Format** | Purified polyclonal antibody supplied in PBS with 0.05% (V/V) Proclin 300. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS. |
| **Storage** | Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles. |
| **Precautions** | CD109 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures. |

## Protein Information

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| **Name** | CD109 |
| **Synonyms** | CPAMD7 |

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| **Function** | Modulates negatively TGFB1 signaling in keratinocytes. |
| **Cellular Location** | Cell membrane; Lipid-anchor, GPI-anchor |
| **Tissue Location** | Widely expressed with high level in uterus, aorta, heart, lung, trachea, placenta and in fetal heart, kidney, liver, spleen and lung. Expressed by CD34(+) acute myeloid leukemia cell lines, T-cell lines, activated T-lymphoblasts, endothelial cells and activated platelets. Isoform 4 is expressed in placenta. Isoform 1 is expressed in keratinocytes and placenta. |

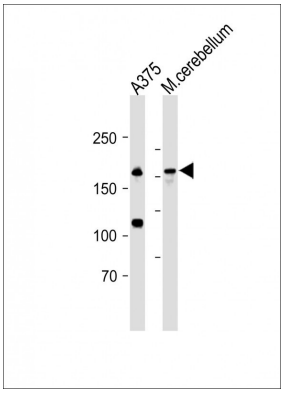
## Background

CD109 is a member of the alpha2-macroglobulin/complement superfamily. The encoded GPI-linked glycoprotein is found on the cell surface of platelets, activated T-cells, and endothelial cells. The protein binds to and negatively regulates signaling of transforming growth factor beta (TGF-beta).

## References


Nie, Y.M., et al. Transfus Med 20(6):376-382(2010)
Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) :
Hagiwara, S., et al. Oncogene 29(15):2181-2191(2010)
Bhatti, F.A., et al. Transfus Med 20(2):78-87(2010)
Raychaudhuri, S., et al. Nat. Genet. 41(12):1313-1318(2009)


## Images




All lanes: Anti-CD109 Antibody (N-term) at 1:1000 dilution Lane 1: A375 whole cell lysate Lane 2: Mouse cerebellum lysate Lysates/proteins at 20 µg per lane. Secondary: Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (ASP1615) at 1/15000 dilution. Observed band size: 160 KDa Blocking/Dilution buffer: 5% NFDM/TBST.