

## Recombinant Human CD109 Protein, C-His-tagged

**Cat. No.** CD109-018H    **Lot. No.** (See product label)

### SPECIFICATION

**Product Overview**      Recombinant Human CD109 Protein with C-His tag was expressed in E. coli.

**Species**                      Human

**Source**                        E.coli

**Description**

CD109 is a glycosylphosphatidylinositol (GPI)-linked glycoprotein that belongs to the alpha2-macroglobulin family of thioester containing proteins. CD109 is associated with TGF-beta receptor I (TbRI) and inhibits TGF-beta signaling. Cleavage of CD109 at its Furin cleavage site results in the release of its large amino-terminal domain, which then binds to the TGF-beta receptor I to inhibit TGF-beta signaling. CD109 is expressed on a subset of CD34+ bone marrow cells and mesenchymal stem cells, activated platelets, activated T cells, endothelial cells, and a wide variety of tumors. Elevated CD109 expression has been considered a diagnostic/prognostic marker for several types of cancers.

**Molecular Mass**            ~36 kDa

**AA Sequence**

LSSVGSPKAKEALNMLTWRAEQEGGMQFWVSSSEKLSDSWQPRSLDIEVAAYALL  
 SHFLQFQTSEGIPIMRWLSRQRNSLGGFASTQDTTVALKALSEFAALMNTERTNIQV  
 TVTGPSSPSVKFLIDTHNRLLLQTAELAVVQPTAVNISANGFGFAICQLNVVYNVKA  
 SGSSRRRRSIQNQEAFDLDVAVKENKDDLNHVDLNVCTSFSGPGRSGMALMEVNL  
 LSGFMVPSEAISLSETVKKVEYDHGKLNLYLDSVNETQFCVNIPAVRNFKVSNTQDA  
 SVSIVDYEPRRQAVRSYNSEVKLSSCDLCSVDVQGCRPCEDGA

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<b>Purity</b>	Transferred into competent cells and the supernatant was purified by NI column affinity chromatography and the purity is > 85% (by SDS-PAGE).
<b>Notes</b>	For research use only, not for use in diagnostic procedure.
<b>Storage</b>	Store at 4 centigrade short term. Aliquot and store at -20 centigrade long term. Avoid freeze-thaw cycles.
<b>Concentration</b>	≥0.5 mg/mL
<b>Storage Buffer</b>	PBS, 4M Urea, pH7.4

## GENE INFORMATION

<b>Gene Name</b>	CD109 CD109 molecule [ Homo sapiens (human) ]
<b>Official Symbol</b>	CD109
<b>Synonyms</b>	CD109; CD109 molecule; CD109 antigen (Gov platelet alloantigens); CD109 antigen; CPAMD7; DKFZp762L1111; FLJ38569; p180; r150; Gov platelet alloantigens; activated T-cell marker CD109; platelet-specific Gov antigen; 150 kDa TGF-beta-1-binding protein; C3 and PZP-like alpha-2-macroglobulin domain-containing protein 7; RP11-525G3.1; FLJ41966;
<b>Gene ID</b>	135228
<b>mRNA Refseq</b>	NM_001159587
<b>Protein Refseq</b>	NP_001153059
<b>MIM</b>	608859

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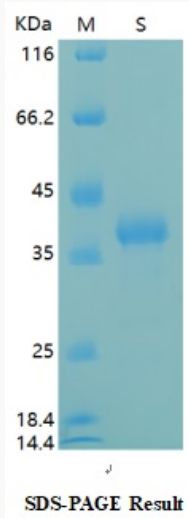
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UniProt ID

Q6YHK3

SDS-PAGE



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