

Recombinant Human CD109 Protein, His Tagged

Cat. No. CD109-11227H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human CD109 Protein, His Tag is expressed from human 293 cells (HEK293). It contains AA Val 22-Ser 1269 (Accession # Q6YHK3-1). This protein carries a polyhistidine tag at the C-terminus. Predicted N-terminus: Val 22
Species	Human
Source	HEK293
ProteinLength	22-1269 aa
Description	CD109 is a glycosyl phosphatidylinositol (GPI)-linked glycoprotein that localizes to the surface of platelets, activated T-cells, and endothelial cells. CD109 is expressed in many malignant tumors, including various squamous cell carcinomas and adenocarcinomas, and plays a role as a multifunctional coreceptor. CD109 reportedly associates with transforming growth factor (TGF)- β receptors and negatively regulates TGF- β signaling in keratinocytes. Additionally, CD109 is potentially related to signal transducer and activator of transcription-3 signaling and aberrant cell proliferation.
Form	Lyophilized from 0.22 μ m filtered solution in PBS, pH7.4 with trehalose as protectant.
Molecular Mass	The protein has a calculated MW of 141.6 kDa. The protein migrates as 160-180 kDa when calibrated against Star Ribbon Pre-stained Protein Marker under reducing (R) condition (SDS-PAGE) due to glycosylation.

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Endotoxin	Less than 1.0 EU/μg by the LAL method/rFC method.
Purity	>95% as determined by SDS-PAGE.
Storage	This product is stable after storage at: -20 to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution. For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 μg/μL. Centrifuge the vial at 4 centigrade before opening to recover the entire contents.

GENE INFORMATION

Gene Name	CD109 CD109 molecule [Homo sapiens (human)]
Official Symbol	CD109
Synonyms	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;
Gene ID	135228
mRNA Refseq	NM_001159587
Protein Refseq	NP_001153059

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MIM	608859
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UniProt ID	Q6YHK3
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