

Recombinant Human CD27 protein, Mouse IgG2a Fc-tagged, low endotoxin

Cat. No. CD27-337H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CD27 protein (Thr21-Ile192)(low endotoxin), fused to Mouse IgG2a Fc tag at C-terminus, was expressed in human 293 cells (HEK293).
Species	Human
Source	HEK293
ProteinLength	172
Description	CD Antigen CD27 is also known as Tumor necrosis factor receptor superfamily member 7 (TNFRSF7), which belongs to TNF-receptor superfamily. CD27/TNFRSF7 is found in most T-lymphocytes. CD27/TNFRSF7 is required for generation and long-term maintenance of T cell immunity. It binds to ligand CD70, and plays a key role in regulating B-cell activation and immunoglobulin synthesis. This receptor transduces signals that lead to the activation of NF-κB and MAPK8/JNK. CD27 has been shown to interact with SIVA1, TRAF2 and TRAF3.
Form	Lyophilized from 0.22 um filtered solution in 50 mM Tris, 100 mM Glycine, pH7.5, 10% trehalose.
Molecular Mass	The protein has a calculated MW of 46.2 kDa. The protein migrates as 55-75 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
Endotoxin	Less than 0.1 EU per ug by the LAL method.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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Purity	>95% as determined by SDS-PAGE.
Storage	For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles. This product is stable after storage at: -20 centigrade to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.
GENE INFORMATION	
Gene Name	CD27
Official Symbol	CD27
Synonyms	CD27; CD27 molecule; TNFRSF7, tumor necrosis factor receptor superfamily, member 7; CD27 antigen; S152; Tp55; CD27L receptor; T cell activation antigen S152; T-cell activation antigen CD27; tumor necrosis factor receptor superfamily, member 7; T14; TNFRSF7; MGC20393
Gene ID	939
mRNA Refseq	NM_001242
Protein Refseq	NP_001233
MIM	186711

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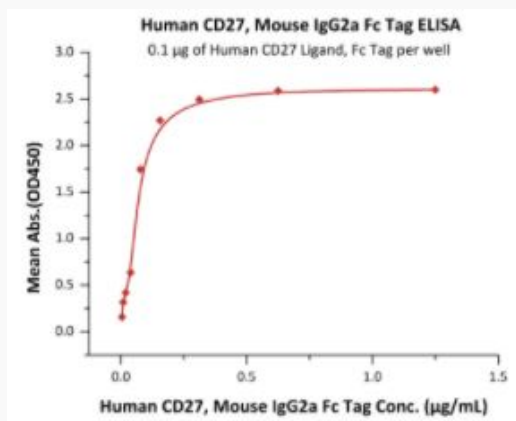
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UniProt ID

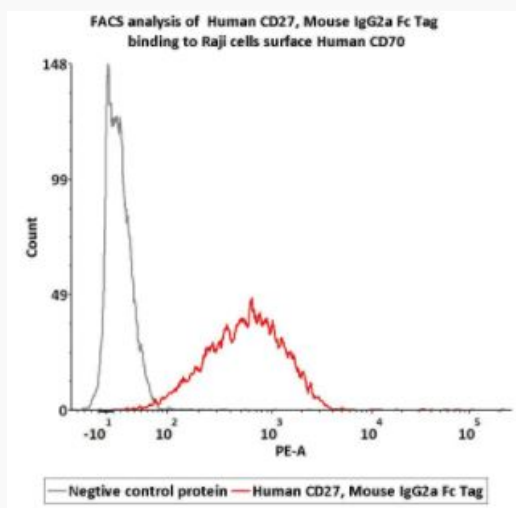
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Bioactivity-ELISA of CD27-337H



Immobilized Human CD27 Ligand, Fc Tag at 1 µg/mL (100 µL/well) can bind Human CD27, Mouse IgG2a Fc Tag with a linear range of 0.005-0.078 µg/mL (QC tested).

Bioactivity-Cell based assay of CD27-337H



Flow Cytometry assay shows that Human CD27, Mouse IgG2a Fc Tag, low

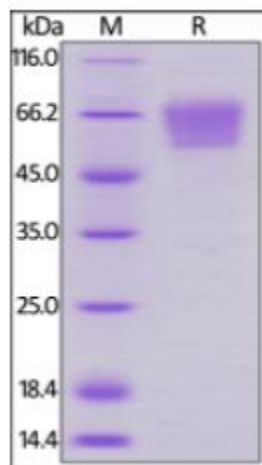
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endotoxin can bind to Raji cells Surface Human CD70. The concentration of CD27 used is 10 µg/mL (Routinely tested).

SDS-PAGE of CD27-337H



Human CD27, Mouse IgG2a Fc Tag, low endotoxin on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

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