

Recombinant Mouse CD27 Antigen, Fc Chimera

Cat. No. Cd27-3258M Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant mouse Cd27 protein (Met 1-Ile 189), fused with the Fc region of human IgG1 at the C-terminus, was expressed in *Human Cells*.

Species Mouse

Source Human Cells

ProteinLength 1-189 a.a.

Description Mouse CD27, also known as TNFRSF7, is a member of the tumor necrosis factor receptor (TNFR) superfamily characterized by the presence of a Cys-knot motif in the extracellular region, which occurs three times in CD27. CD27 is a type I transmembrane glycoprotein existing as disulfide-linked homodimer, and has been shown to play roles in lymphoid proliferation, differentiation, and apoptosis. CD27 has been defined as a T and B cell co-stimulatory molecule, and its activity is governed by the transient availability of its TNF-like ligand CD70 on lymphocytes and dendritic cells. In man and mouse, CD27 is restricted to lymphoid cells and present on the great majority of naive CD4+ and CD8+ T cells.

Molecular Mass The recombinant mouse CD27/Fc is a disulfide-linked homodimer after removal of the signal peptide. The reduced monomer consists of 410 amino acids and has a predicted molecular mass of 46.2 kDa. In SDS-PAGE under reducing conditions, the apparent molecular mass of rm CD27/Fc monomer is approximately 60-65 kDa due to glycosylation.

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Predicted N Terminal	Thr 21.
Purity	> 94 % as determined by SDS-PAGE.
Formulation	Lyophilized from sterile PBS , pH 7.4.
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method.
Storage And Stability	Samples are stable for up to twelve months from date of receipt at -70°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

GENE INFORMATION

Gene Name	Cd27 CD27 antigen [Mus musculus]
Synonyms	Cd27; CD27 antigen; S152; Tp55; Tnfrsf7; CD27 antigen; CD antigen 27; CD27L receptor; OTTMUSP00000029268; OTTMUSP00000029269; OTTMUSP00000029270; T-cell activation antigen CD27; tumor necrosis factor receptor superfamily member 7; tumor necrosis factor receptor superfamily, member 7
Gene ID	21940
mRNA Refseq	NM_001033126
Protein Refseq	NP_001028298
UniProt ID	P41272
Chromosome	6 F3; 6 60.35 cM

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Location

Pathway

Cytokine-cytokine receptor interaction

Function

protein binding; receptor activity

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