

Active Recombinant Mouse Cd276 Protein, Fc Tagged

Cat. No. CD276-1287M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Mouse B7-H3 (2Ig) Protein, Fc Tag is expressed from human 293 cells (HEK293). It contains AA Val 29-Phe 244 (Accession # NP_598744). This protein carries a human IgG1 Fc tag at the C-terminus. Predicted N-terminus: Val 29
Species	Mouse
Source	HEK293
ProteinLength	29-244 aa
Description	B7 homolog 3 (B7-H3), a member of the immunoglobulin superfamily, is also known CD276, which contains two Ig-like C2-type (immunoglobulin-like) domains and two Ig-like V-type (immunoglobulin-like) domains. B7-H3 may participate in the regulation of T-cell-mediated immune response. B7-H3 also plays a protective role in tumor cells by inhibiting natural-killer mediated cell lysis as well as a role of marker for detection of neuroblastoma cells. Furthermore, B7-H3 is involved in the development of acute and chronic transplant rejection and in the regulation of lymphocytic activity at mucosal surfaces. It could also play a key role in providing the placenta and fetus with a suitable immunological environment throughout pregnancy.
Form	Lyophilized from 0.22 µm filtered solution in Tris with Glycine, Arginine and NaCl, pH7.5 with trehalose as protectant.
Bio-activity	Immobilized Mouse B7-H3 (2Ig) Protein, Fc Tag at 1 µg/mL (100 µL/well) can bind Anti-B7-H3 Antibody, Mouse IgG1 with a linear range of 4-63 ng/mL.

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Molecular Mass	The protein has a calculated MW of 50.1 kDa. The protein migrates as 60-66 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
Endotoxin	Less than 1.0 EU/μg by the LAL method/rFC method.
Purity	>95% as determined by SDS-PAGE. >95% as determined by SEC-MALS.
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	Cd276 CD276 antigen [<i>Mus musculus</i> (house mouse)]
Official Symbol	Cd276
Synonyms	CD276; CD276 antigen; B7-H3; B7 homolog 3; costimulatory molecule; B7h3; B7RP-2; AU016588; 6030411F23Rik;
Gene ID	102657
mRNA Refseq	NM_133983
Protein Refseq	NP_598744

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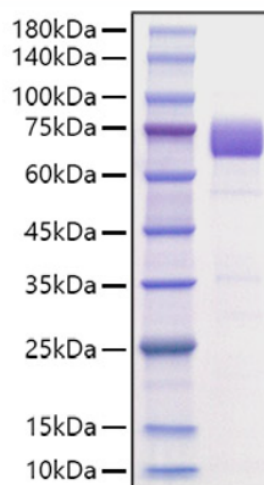
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UniProt ID

Q8VE98

SDS-PAGE



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