

Active Recombinant Human CD276 Protein, Fc-tagged

Cat. No. CD276-347H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human B7-H3 Protein, Fc Tag is expressed from human 293 cells (HEK293). It contains AA Leu 29 - Pro 245 (Accession # Q5ZPR3-2). This protein carries a human IgG1 Fc tag at the C-terminus. Predicted N-terminus: Leu 29
Species	Human
Source	HEK293
ProteinLength	29-245 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 PBS, pH7.4 with trehalose as protectant.
Bio-activity	Immobilized Human B7-H3 Protein, Fc Tag at 2 µg/mL (100 µL/well) can bind Monoclonal Anti-Human B7-H3/B7-H3 (4Ig) Antibody, Human IgG1 with a linear range of 0.3-5 ng/mL.

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Molecular Mass	The protein has a calculated MW of 49.9 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.
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 molecule [Homo sapiens (human)]
Official Symbol	CD276
Synonyms	CD276; CD276 molecule; CD276 antigen; B7 H3; B7H3; B7RP 2; B7 homolog 3; costimulatory molecule; B7-H3; B7RP-2; 4lg-B7-H3;
Gene ID	80381
mRNA Refseq	NM_001024736
Protein Refseq	NP_001019907

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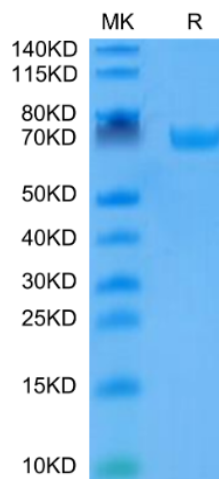
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MIM 605715

UniProt ID Q5ZPR3

SDS-PAGE.



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