

Recombinant Human CD276 Protein, C-His-tagged

Cat. No. CD276-145H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CD276 Protein with C-His tag was expressed in E. coli.
Species	Human
Source	E.coli
Description	B7 homolog 3 (B7-H3, CD276) is a member of the B7 family of cell surface ligands that regulate T cell activation and immune responses. B7-H3 protein contains two extracellular Ig-like V-type domains and two IgG-like C2-type domains, a transmembrane domain, and a short intracellular domain. Early research examining the biological process of B7-H3 suggested that B7-H3 is a positive regulator of T cell response. Subsequent research studies indicated that B7-H3 is a negative regulator of T cell response, and that the protein inhibits T cell proliferation. One possibility is that B7-H3 interacts with two distinct sets of receptors, resulting in seemingly opposite biological outcomes. B7-H3 is expressed by antigen presenting cells, activated T cells, and a few normal tissues, including placenta and prostate. Expression of B7-H3 is seen in several cancer types, including prostate, breast, colon, lung, and gastric cancers, and in endothelial cells from tumor associated vasculature.
Molecular Mass	~48 kDa
AA Sequence	LEVQVPEDPVVALVGTDATLCCSFSPGFSLAQLNLIWQLTDTKQLVHSFAEGQD QGSAYANRTALFPDLLAQGNASRLRQVRVADEGSFTCFVSIRDGSAAVSLQVAA

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

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

 45-1 Ramsey Road, Shirley, NY 11967, USA

PYSKPSMTLEPNKDLRPGDVTITCSSYQGYPEAEVFWQDGQGVPLTGNVTTSQM
 ANEQGLFDVHSILRVVLGANGTYSCLVRNPVLQQDAHSSVTITPQRSPTGAVEVQVP
 EDPVVALVGTDATLRCSFSPEPGFSLAQLNLIWQLTDTKQLVHSFTEGRDQGSAYA
 NRTALFPDLLAQGNASLRLQRVRVADEGSFTCFVSIRDFGSAAVSLQVAAPYSKPS
 MTLEPNKDLRPGDVTITCSSYRGYPEAEVFWQDGQGVPLTGNVTTSQMANEQGL
 FDVHSVLRVVLGANGTYSCLVRNPVLQQDAHGSVTITGQPMTFPPEA

Purity

Transferred into competent cells and the supernatant was purified by NI column affinity chromatography and the purity is > 85% (by SDS-PAGE).

Notes

For research use only, not for use in diagnostic procedure.

Storage

Store at 4 centigrade short term. Aliquot and store at -20 centigrade long term. Avoid freeze-thaw cycles.

Concentration

≥0.5 mg/mL

Storage Buffer

PBS, 4M Urea, pH7.4

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

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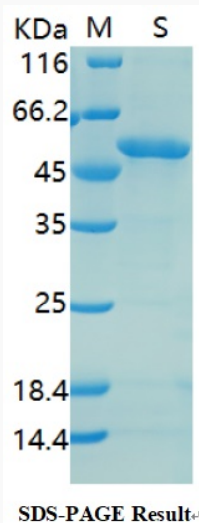
 45-1 Ramsey Road, Shirley, NY 11967, USA

Protein Refseq NP_001019907

MIM 605715

UniProt ID Q5ZPR3

SDS-PAGE



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