

ARG70302

Human CD276 / B7-H3 recombinant protein (ECD) (His-tagged, C-ter)

Package: 50 µg

Store at: -20°C

Summary

Product Description	HEK293 expressed, His-tagged (C-ter) Human CD276 / B7-H3 recombinant protein (ECD).
Tested Reactivity	Hu
Tested Application	Binding, ELISA, SDS-PAGE
Target Name	CD276 / B7-H3 (ECD)
Species	Human
A.A. Sequence	Leu29 - Pro245 of Human CD276 / B7-H3 (NP_079516) with 6X His tag at the C-terminus.
Expression System	HEK293
Alternate Names	B7-H3; B7 homolog 3; B7H3; 4Ig-B7-H3; B7RP-2; Costimulatory molecule; CD antigen CD276; CD276 antigen

Application Instructions

Application Note	Binding activity test: Measured by its binding ability in a functional ELISA. Immobilized Human B7-H3 at 2 µg/ml (100 µl/well) can bind Anti-Human B7-H3 Antibody with a linear range of 1-4 ng/ml.
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Properties

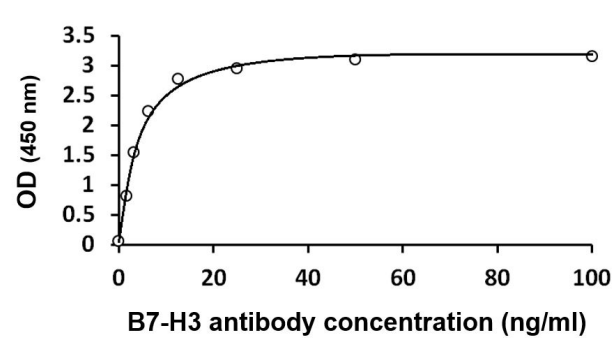
Form	Powder
Purification Note	0.22 µm filter sterilized. Endotoxin level is 95% (by SDS-PAGE)
Buffer	PBS (pH 7.4)
Reconstitution	Reconstitute to a concentration of 0.1 - 0.5 mg/ml in sterile distilled water.
Storage instruction	For long term, lyophilized protein should be stored at -20°C or -80°C. After reconstitution, aliquot and store at -20°C for up to one month, at 2-8°C for up to one week. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	CD276
Gene Full Name	CD276 molecule
Background	The protein encoded by this gene belongs to the immunoglobulin superfamily, and thought to participate in the regulation of T-cell-mediated immune response. Studies show that while the transcript of this gene is ubiquitously expressed in normal tissues and solid tumors, the protein is preferentially expressed only in tumor tissues. Additionally, it was observed that the 3' UTR of this transcript contains a target site for miR29 microRNA, and there is an inverse correlation between the expression of this protein and miR29 levels, suggesting regulation of expression of this gene product by miR29. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Sep 2011]

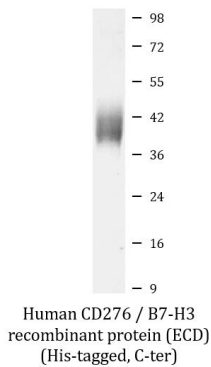
Function	May participate in the regulation of T-cell-mediated immune response. May play a protective role in tumor cells by inhibiting natural-killer mediated cell lysis as well as a role of marker for detection of neuroblastoma cells. May be involved in the development of acute and chronic transplant rejection and in the regulation of lymphocytic activity at mucosal surfaces. Could also play a key role in providing the placenta and fetus with a suitable immunological environment throughout pregnancy. Both isoform 1 and isoform 2 appear to be redundant in their ability to modulate CD4 T-cell responses. Isoform 2 is shown to enhance the induction of cytotoxic T-cells and selectively stimulates interferon gamma production in the presence of T-cell receptor signaling. [UniProt]
Calculated Mw	57 kDa
Cellular Localization	Membrane; Single-pass type I membrane protein. [UniProt]

Images



ARG70302 Human CD276 / B7-H3 recombinant protein (ECD) (His-tagged, C-ter) ELISA image

ELISA: The plate was coated with ARG70302 Human CD276 / B7-H3 recombinant protein (ECD) (His-tagged, C-ter) at 2 µg/ml (100 µl/well). Samples were detected with serially diluted anti-B7-H3 antibody.



ARG70302 Human CD276 / B7-H3 recombinant protein (ECD) (His-tagged, C-ter) SDS-PAGE image

SDS-PAGE analysis of ARG70302 Human CD276 / B7-H3 recombinant protein (ECD) (His-tagged, C-ter).