

CD276/B7-H3 Protein, Human (Biotinylated, HEK293, C-His-Avi)

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| Cat. No.: | HY-P700880 |
| Synonyms: | B7H3; B7-H3; CD276; PSEC0249; UNQ309; PRO352; B7 homolog 3; CD276 |
| Species: | Human |
| Source: | HEK293 |
| Accession: | Q5ZPR3-2 (L29-P245) |
| Gene ID: | 80381 |
| Molecular Weight: | 40-50 kDa |

PROPERTIES

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| Biological Activity | Immobilized Anti-B7-H3 Antibody, hFc Tag at 1µg/ml (100µl/well) on the plate. Dose response curve for Biotinylated Human B7-H3, His Tag with the EC ₅₀ of 1.4µg/ml determined by ELISA. |
| Appearance | Lyophilized powder. |
| Formulation | Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4. Normally 8% trehalose is added as protectant before lyophilization. |
| Endotoxin Level | <1 EU/µg, determined by LAL method. |
| Reconstitution | It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. |
| Storage & Stability | Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage. |
| Shipping | Room temperature in continental US; may vary elsewhere. |

DESCRIPTION

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| Background | The CD276/B7-H3 protein is suggested to play a multifaceted role in the regulation of T-cell-mediated immune responses, potentially acting as a protective factor in tumor cells by inhibiting natural-killer-mediated cell lysis and serving as a marker for the detection of neuroblastoma cells. Additionally, CD276/B7-H3 may be involved in the development of acute and chronic transplant rejection, contributing to the regulation of lymphocytic activity at mucosal surfaces. Notably, it could play a crucial role in providing the placenta and fetus with an immunologically suitable environment throughout pregnancy. Both isoform 1 and isoform 2 of CD276/B7-H3 appear redundant in their ability to modulate CD4 T-cell responses, with isoform 2 demonstrated to enhance the induction of cytotoxic T-cells and selectively stimulate interferon-gamma production in the presence of T-cell receptor signaling. The interaction with TREML2 is identified as enhancing T-cell activation, highlighting the diverse roles CD276/B7-H3 may play in immune regulation and cellular responses. |
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Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA