

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

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| Cat. No.: | HY-P7327 |
| Synonyms: | rHuB7-H3/ICOSLG, His; B7H3; 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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| AA Sequence | <p> L E V Q V P E D P V V A L V G T D A T L C C S F S P E P G F S L A Q L N L I W Q L T D T K Q L V H S F A E G Q D Q G S A Y A N R T A L F P D L L A Q G N A S L R L Q R V R V A D E G S F T C F V S I R D F G S A A V S L Q V A A P Y S K P S M T L E P N K D L R P G D T V T I T C S S Y R G Y P E A E V F W Q D G Q G V P L T G N V T T S Q M A N E Q G L F D V H S V L R V V L G A N G T Y S C L V R N P V L Q Q D A H G S V T I T G Q P M T F P </p> |
| Biological Activity | Immobilized Human B7-H3 at 0.5 µg/mL (100µL/Well) on the plate. Dose response curve for Anti-B7-H3 Antibody with the EC ₅₀ of 20.2-29.4 ng/mL determined by ELISA. |
| Appearance | Lyophilized powder |
| Formulation | Lyophilized after extensive dialysis against PBS, pH 7.4. |
| 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. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose). |
| 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 | As a member of the B7 family, inducible co-stimulator ligand (ICOSLG) expressed on tumor cell has been reported to have an important role in tumor immunity. As the counter ligand of ICOS, a CD28-related molecule, ICOSLG is expressed on professional antigen-presenting cell (APCs; such as dendritic cells (DCs) and B cells) and on some tumor cells (such as |
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glioma cells and gastric carcinoma cells). ICOSLG is the only B7 family member that preferentially co-stimulates type 2T helper cell (Th2) responses, and interestingly, this unique molecule has a critical role in antitumor immunity. ICOSLG expression on solid tumors (implanted-transfected tumors) aids in both NK mediated and CD8⁺ cytotoxic T cell (CTL) activation and killing. Several studies using ICOSLG-transfected solid tumor cell lines found that ICOSLG induced CD8⁺ cytotoxic lymphocyte-mediated tumor regression^[1].

REFERENCES

[1]. Wang B, et al. Effects of ICOSLG expressed in mouse hematological neoplasm cell lines in the GVL reaction. Bone Marrow Transplant. 2013 Jan;48(1):124-8.

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