

Recombinant Rat CD276 Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP52539

Size: 10ug, 100ug

Protein Name: CD276 antigen (B7 homolog 3) (B7-H3) (Costimulatory molecule) (CD antigen CD276)

Synonym: Cd276, B7h3

UniProt ID: Q7TPB4

UniProt Link: www.uniprot.org/uniprotkb/Q7TPB4/entry

Species Source: Rat

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 316 AA

Molecular Weight: 34 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MLRGWGGPSVGVSMGTALGVLCLCLTGAVEVQVSEDPVVALVDTDATLRCSFSPEPGFSLRQLNLI
WQLTDTKQLVHSFTEGRDQGSAYANRTALFPDLLVQGNASRLRQVRVTDEGSYTCFVSIQDFDSA
AVSLQVAAPYSKPSMTLEPNKDLRPGDMVTITCSSYQGYPEAEVFWKDGQGLPLTGNVTTSQMAN
ERGLFDVHSLRVVLGANGTYSCLVRNPVLQQDAHGSVTITGQPMTFPPEALWVTVGLSVCLVILLV
ALAFVCWRKIKQSCEEENAGAEDQDGDGEGSKTALRPLKHSENKEDDGQEIA

3. Buffer Composition

Liquid format: PBS-based buffer containing 50% glycerol. Glycerol concentration can be customized upon customer request; please state special requirements when placing your order.

Lyophilized format: Buffer before lyophilization is PBS supplemented with 6% trehalose.

4. Storage Conditions

Upon receipt, store the product at -20 °C or -80 °C. Aliquot the product for on-demand use to preserve protein activity and prevent denaturation and inactivation caused by repeated freeze-thaw cycles.

5. Product Description

This product is recombinant CD276 antigen (B7 homolog 3) (B7-H3) (Costimulatory molecule) (CD antigen CD276) produced using the HEK293T eukaryotic cell expression system. It is suitable for in-vitro functional assays, protein-protein interaction studies, antibody preparation and other biomedical research applications.

Protein Function: Modulates T-cell-mediated immune responses and the development of acute and chronic transplant rejection. May play a positive regulatory role in bone formation and has a dual role in the bone-immune interface. Induces antitumor immunity as it activates both acquired and innate immunity leading to natural killer cell and CD8 T-cell dependent killing of tumor cells (By similarity).

Subcellular Localization: Membrane ; Single-pass type I membrane protein .

6. Notes

- Avoid repeated freeze-thaw cycles to maintain protein stability and biological activity.
- Please specify special buffer-composition requirements at the time of order placement.
- For research use only. Not intended for clinical diagnosis, therapeutic use or commercial manufacturing.