CD276
Recombinant Mouse B7-H3/CD276:Fc Chimera

Catalog No.	CRM042	**Quantity:**	100 µg
Alternate Names:	B7RP-2, B7h3		

Description: CD276 (B7-H3) is a member of the B7/CD28 superfamily of costimulatory molecules serving as an accessory modulator of T cell response. B7 family molecules, which are expressed on antigen-presenting cells and display extracellular regions containing immunoglobulin (Ig) variable (V)- and constant (C)-like domains, are known to modulate T cell receptor (TCR)-mediated T cell activation by providing co-signals that are either stimulatory or inhibitory. B7-H3 provides a stimulatory signal to T cells. However, recent studies suggest a negative regulatory role for B7-H3 in T cell responses. B7-H3 inhibited T cell proliferation mediated by antibody to T cell receptor or allogeneic antigen-presenting cells. B7-H3 is a negative regulator that preferentially affects T(H)1 responses. B7-H3 may play an important role in muscle-immune interactions, providing further evidence of the active role of muscle cells in local immunoregulatory processes. Recently, B7-H3 expression has also been found in a variety of different human cancers, including prostate cancer, clear cell renal cell carcinoma (ccRCC), non-small-cell lung cancer (NSCLC), pancreatic cancer, gastric cancer, ovarian cancer, colorectal cancer (CRC) and urothelial cell carcinoma. B7-H3 was expressed in some human cancers and correlated with poor outcome of cancer patients.

The extracellular domain of mouse CD276 [B7-H3] (aa 30-248) is fused to the N-terminus of the Fc region of mouse IgG2a.

Gene ID:	102657
Protein Accession No:	NP_598744.1
Source:	CHO cells
Formulation:	Lyophilized from a 0.2 µm filtered solution containing PBS.
Purity:	≥98% (SDS-PAGE)
Endotoxin Level:	<0.06 EU/µg purified protein as determined by LAL test (Lonza).
Reconstitution:	Reconstitute at 100 µg/ml in sterile PBS.
Storage & Stability:	Store at 4°C upon arrival and at -20°C for long term. Lyophilized product is stable for at least 1 year after receipt when stored at -20°C. After reconstitution, prepare aliquots and store at -20°C. Stable for up to 3 month at -20°C. **Avoid repeated freeze-thaw cycles.**

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