Recombinant Human CD276 Protein, Fc-tagged, Alexa Fluor 647 conjugated

Cat. No. CD276-183HAF647 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	The Alexa Fluor 647 conjugated extracellular domain of human CD276 [B7-H3] (aa 29-245) is fused to the N-terminus of the Fc region of human IgG1.
Species	Human
Source	CHO
ProteinLength	29-245 a.a.
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

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	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.
Form	Lyophilized
Purity	≥98 % by SDS-PAGE
Characteristic	Disulfide-linked homodimer Labeled with Alexa Fluor 647 via amines Excitation = 650 nm Emission = 668 nm
Stability	Stable for at least 1 year after receipt when stored at -20 centigrade. Working aliquots are stable for up to 3 months when stored at -20 centigrade.
Storage	Short Term Storage: +4 centigrade; Long Term Storage: -20 centigrade. Avoid freeze/thaw cycles.
Storage Buffer	Lyophilized from 0.2 μm filtered solution in PBS.
Conjugation	Alexa Fluor 647

GENE INFORMATION

Gene Name	CD276 CD276 molecule [Homo sapiens]
Official Symbol	CD276
Synonyms	CD276; CD276 molecule; CD276 antigen; B7 H3; B7H3; B7RP 2; B7 homolog 3; costimulatory molecule; B7-H3; B7RP-2; 4Ig-B7-H3;

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Gene ID	80381
mRNA Refseq	NM_001024736
Protein Refseq	NP_001019907
MIM	605715
UniProt ID	Q5ZPR3

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