

# 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; 4lg-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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