

Active Recombinant Human CD276 Protein, MlgG2a mFc-tagged, Alexa Fluor 555 conjugated

Cat. No. CD276-2001HAF555 Lot. No. (See product label)

SPECIFICATION

Product Overview	The Alexa Fluor 555 conjugated extracellular domain of human B7-H3 (NP_079516.1) (Leu29-Pro245) is fused to the N-terminus of the Fc region of mouse IgG2a.
Species	Human
Source	CHO
ProteinLength	29-245 a.a.
Description	The protein encoded by this gene belongs to the immunoglobulin superfamily, and thought to participate in the regulation of T-cell-mediated immune response. Studies show that while the transcript of this gene is ubiquitously expressed in normal tissues and solid tumors, the protein is preferentially expressed only in tumor tissues. Additionally, it was observed that the 3' UTR of this transcript contains a target site for miR29 microRNA, and there is an inverse correlation between the expression of this protein and miR29 levels, suggesting regulation of expression of this gene product by miR29. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.
Form	Lyophilized
Bio-activity	Measured by its ability to inhibit anti-CD3-induced proliferation of stimulated human T cells.

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Molecular Mass	49 kDa (monomer)
AA Sequence	Leu29-Pro245
Endotoxin	< 0.06 EU/ µg as determined by LAL test.
Purity	> 98 % by SDS-PAGE under reducing conditions.
Characteristic	Disulfide-linked homodimer Labeled with Alexa Fluor 555 via amines With an excitation and emission maximum of 555/565 nm, Alexa Fluor 555 can be efficiently excited using a 543 nm He-Ne laser line and detected under standard TRITC/Cy3 filters.
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.
Concentration	100 µg/mL
Storage Buffer	Lyophilized from 0.2 µm filtered solution in PBS.
Reconstitution	Reconstitute at 100 µg/mL in sterile PBS.
Conjugation	Alexa Fluor 555

GENE INFORMATION

Gene Name	CD276 CD276 molecule [Homo sapiens]
Official Symbol	CD276

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Synonyms	CD276; CD276 molecule; CD276 antigen; B7 H3; B7H3; B7RP 2; B7 homolog 3; costimulatory molecule; B7-H3; B7RP-2; 4lg-B7-H3;
Gene ID	80381
mRNA Refseq	NM_001024736
Protein Refseq	NP_001019907
MIM	605715
UniProt ID	Q5ZPR3

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