

Active Recombinant Human CD276 Protein, MIgG2a mFc-tagged, Alexa Fluor 488 conjugated

Cat. No. CD276-2001HAF488 Lot. No. (See product label)

SPECIFICATION

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|-------------------------|--|
| Product Overview | The Alexa Fluor 488 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 | <p>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.</p> <p>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.</p> |
| 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 488 via amines Excitation Wavelength: 488 nm Emission Wavelength: 515-545 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. |
| 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 488 |

GENE INFORMATION

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

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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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