

# Active Recombinant Human CD276 Protein, hFc-tagged, FITC conjugated

**Cat. No.** CD276-2002HF    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | The FITC conjugated extracellular domain of human B7-H3 (NP_079516.1) (Leu29-Pro245) is fused to the N-terminus of the Fc region of human IgG1 was expressed in CHO cell.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Source</b>           | CHO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>ProteinLength</b>    | 29-245 a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Description</b>      | <p>The protein encoded by this gene belongs to the immunoglobulin superfamily, and thought to participate in theregulation of T-cell-mediated immune response. Studies show that while the transcript of this gene isubiquitously expressed in normal tissues and solid tumors, the protein is preferentially expressed only in tumortissues.</p> <p>Additionally, it was observed that the 3" UTR of this transcript contains a target site for miR29microRNA, and there is an inverse correlation between the expression of this protein and miR29 levels, suggestingregulation of expression of this gene product by miR29. Alternatively spliced transcript variants encodingdifferent isoforms have been found for this gene.</p> |
| <b>Form</b>             | Lyophilized                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Bio-activity</b>     | Measured by its ability to inhibit anti-CD3-induced proliferation of stimulated human T cells.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

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|                       |                                                                                                                                                                                        |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Molecular Mass</b> | 49 kDa (monomer)                                                                                                                                                                       |
| <b>AA Sequence</b>    | Leu29-Pro245                                                                                                                                                                           |
| <b>Endotoxin</b>      | < 0.06 EU/ µg as determined by LAL test.                                                                                                                                               |
| <b>Purity</b>         | > 98 % by SDS-PAGE under reducing conditions.                                                                                                                                          |
| <b>Characteristic</b> | Disulfide-linked homodimer<br>Labeled with FITC via amines<br>Excitation source: 488 nm spectral line, argon-ion laser<br>Excitation Wavelength: 488 nm<br>Emission Wavelength: 535 nm |
| <b>Stability</b>      | 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.                                  |
| <b>Concentration</b>  | 100 µg/mL                                                                                                                                                                              |
| <b>Storage Buffer</b> | Lyophilized from 0.2 µm filtered solution in PBS.                                                                                                                                      |
| <b>Reconstitution</b> | Reconstitute at 100 µg/mL in sterile PBS.                                                                                                                                              |
| <b>Conjugation</b>    | FITC                                                                                                                                                                                   |

## GENE INFORMATION

|                        |                                       |
|------------------------|---------------------------------------|
| <b>Gene Name</b>       | CD276 CD276 molecule [ Homo sapiens ] |
| <b>Official Symbol</b> | CD276                                 |

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|-----------------------|----------------------------------------------------------------------------------------------------------------------------|
| <b>Synonyms</b>       | CD276; CD276 molecule; CD276 antigen; B7 H3; B7H3; B7RP 2; B7 homolog 3; costimulatory molecule; B7-H3; B7RP-2; 4lg-B7-H3; |
| <b>Gene ID</b>        | <a href="#">80381</a>                                                                                                      |
| <b>mRNA Refseq</b>    | <a href="#">NM_001024736</a>                                                                                               |
| <b>Protein Refseq</b> | <a href="#">NP_001019907</a>                                                                                               |
| <b>MIM</b>            | <a href="#">605715</a>                                                                                                     |
| <b>UniProt ID</b>     | <a href="#">Q5ZPR3</a>                                                                                                     |

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