

# Recombinant Human CD276 Protein, His-tagged, Alexa Fluor 555 conjugated

**Cat. No.** CD276-3884HAF555    **Lot. No.** (See product label)

## SPECIFICATION

|                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
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| <b>Product Overview</b>             | Alexa Fluor 555 conjugated recombinant human CD276 (Gly27-Thr461) protein was fused to His-tag at C-terminus and expressed in human 293 cells (HEK293).                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Species</b>                      | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Source</b>                       | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>ProteinLength</b>                | Gly27-Thr461                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Description</b>                  | Human B7 homolog 3 (B7-H3) is a member of the B7 family of immune proteins that provide signals for the regulation of immune responses. Other family members include B7-1, B7-2, B7-H1/PD-L1, B7-H2, and PD-L2. B7 family proteins are type I transmembrane immunoglobulin (Ig) superfamily members that contain extracellular Ig V-like and Ig C-like domains with a short cytoplasmic tail. Termed 4IgB7-H3 or B7-H3b, this molecule has two additional Ig-like domains (one V-type and one C-type) and shows a ubiquitous expression pattern. |
| <b>Form</b>                         | Lyophilized                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Molecular Mass</b>               | The protein has a calculated MW of 48.5 kDa. The protein migrates as 65-80 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>N-terminal Sequence Analysis</b> | Gly 27                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

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|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Endotoxin</b>        | < 1.0 EU/ µg by the LAL method.                                                                                                                                                                                                                                                                                                                                 |
| <b>Purity</b>           | > 95 % as determined by SDS-PAGE                                                                                                                                                                                                                                                                                                                                |
| <b>Characteristic</b>   | <p>Disulfide-linked homodimer</p> <p>Labeled with Alexa Fluor 555 via amines</p> <p>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.</p>                                                                                        |
| <b>Storage</b>          | <p>For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower.</p> <p>Please avoid repeated freeze-thaw cycles.</p> <p>This product is stable after storage at:</p> <p>-20 to -70 centigrade for 12 months in lyophilized state;</p> <p>-70 centigrade for 3 months under sterile conditions after reconstitution.</p> |
| <b>Storage Buffer</b>   | Lyophilized from 0.22 µm filtered solution in PBS, pH7.4, 10% trehalose.                                                                                                                                                                                                                                                                                        |
| <b>Reconstitution</b>   | It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 µg/µL. Centrifuge the vial at 4 centigrade before opening to recover the entire contents.                                                                                                                                                                          |
| <b>Conjugation</b>      | Alexa Fluor 555                                                                                                                                                                                                                                                                                                                                                 |
| <b>GENE INFORMATION</b> |                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Gene Name</b>        | CD276                                                                                                                                                                                                                                                                                                                                                           |
| <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>        | 80381                                                                                                                     |
| <b>mRNA Refseq</b>    | NM_001024736                                                                                                              |
| <b>Protein Refseq</b> | NP_001019907                                                                                                              |
| <b>MIM</b>            | 605715                                                                                                                    |
| <b>UniProt ID</b>     | Q5ZPR3                                                                                                                    |

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