

# Recombinant Human CD226 Protein, hFc-tagged, Alexa Fluor 555 conjugated

**Cat. No.** CD226-635HAF555    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Alexa Fluor 555 conjugated recombinant human CD226 protein (Glu19-Asn247), fused to human IgG1 Fc tag at C-terminus, was expressed in human 293 cells (HEK293).                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>ProteinLength</b>    | 229                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Description</b>      | DNAX accessory molecule 1 (DNAM-1), a single-pass type I membrane protein, is also known as CD226 antigen and platelet and T cell activation antigen 1 (PTA1), which contains 2 Ig-like C2-type (immunoglobulin-like) domains. DNAM-1 is a ~65 kDa glycoprotein expressed on the surface of natural killer cells, platelets, monocytes and a subset of T cells. DNAM-1 mediates cellular adhesion to other cells bearing its ligands, CD112 and CD155, and cross-linking DNAM-1 with antibodies causes cellular activation. Furthermore, DNAM-1 can interact with PVR and PVRL2. |
| <b>Form</b>             | Lyophilized                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Molecular Mass</b>   | The protein has a calculated MW of 52.6 kDa. The protein migrates as 80-90 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Endotoxin</b>        | < 1.0 EU/ µg by the LAL method.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

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|                       |                                                                                                                                                                                                                                                                                                                                                                 |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <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 Tris with Glycine, Arginine and NaCl, pH7.5, 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                                                                                                                                                                                                                                                                                                                                                 |

## GENE INFORMATION

|                        |                                                                    |
|------------------------|--------------------------------------------------------------------|
| <b>Gene Name</b>       | CD226                                                              |
| <b>Official Symbol</b> | CD226                                                              |
| <b>Synonyms</b>        | CD226; CD226 molecule; CD226 antigen; DNAM 1; DNAM1; PTA1; TLISA1; |

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adhesion glycoprotein; DNAX accessory molecule 1; DNAX accessory molecule-1; platelet and T cell activation antigen 1; T lineage-specific activation antigen 1 antigen; DNAM-1

**Gene ID** 10666

**mRNA Refseq** NM\_006566

**Protein Refseq** NP\_006557

**MIM** 605397

**UniProt ID** Q15762

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