



Recombinant Protein Technical Manual

Recombinant Human CD226/DNAM Protein (His & Fc Tag)(Active)

RPES3714

Product Data:

Product SKU: RPES3714

Size: 50µg

Species: Human

Expression host: HEK293 Cells

Uniprot: NP_006557.2

Protein Information:

Molecular Mass: 54 kDa

AP Molecular Mass: 80-90 kDa

Tag: C-His & Fc

Bio-activity: Measured by its binding ability in a functional ELISA. 1. Immobilized CD112-his at 20 µg/ml (100 µl/well) can bind biotinylated DNAM1 with a linear range of 0.078-2.5 µg/ml. 2. Immobilized CD112-Fc at 20 µg/ml (100 µl/well) can bind biotinylated DNAM1 with a linear range of 0.078-5 µg/ml. 3. Immobilized human CD155 at 20 µg/ml (100 µl/well) can bind human DNAM1 Fc chimera with a linear range of 1.2860 ng/ml.

Purity: > 97 % as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Shipping: This product is provided as lyophilized powder which is shipped with ice packs.

Formulation: Lyophilized from sterile PBS, pH 7.4

Reconstitution: Please refer to the printed manual for detailed information.

Application: Functional ELISA

Synonyms: DNAM;DNAM1;PTA1;TLISA1

Immunogen Information:

Sequence: Met 1-Asn 247

Background:

The cluster of differentiation (CD) system is commonly used as cell markers in immunophenotyping. Different kinds of cells in the immune system can be identified through the surface CD molecules which associating with the immune function of the cell. There are more than 320 CD unique clusters and subclusters have been identified. Some of the CD molecules serve as receptors or ligands important to the cell through initiating a signal cascade which then alter the behavior of the cell. Some CD proteins do not take part in cell signal process but have other functions such as cell adhesion. CD226, also known as PTA1 or DNAM, is a member of the immunoglobulin superfamily containing 2 Ig-like domains of the V-set. High rate of CD226 (Cluster of Differentiation 226) is found on the surface of natural killer cells, platelets, monocytes and a subset of T cells. CD226 have binding sites with CD112 and CD155 and mediate cellular adhesion to other cells containing its ligands.