



# Recombinant Protein Technical Manual

**Recombinant Human CD226/DNAM Protein (His Tag)**  
RPES3725

## Product Data:

**Product SKU:** RPES3725

**Size:** 10µg

**Species:** Human

**Expression host:** Human Cells

**Uniprot:** Q15762

## Protein Information:

**Molecular Mass:** 26.8 kDa

**AP Molecular Mass:** 43-55 kDa

**Tag:** C-His

**Bio-activity:**

**Purity:** > 95% as determined by reducing SDS-PAGE.

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

**Storage:** Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°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 a 0.2 µm filtered solution of PBS, pH7.4.

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

**Application:**

**Synonyms:** CD226 antigen; DNAX accessory molecule 1; DNAM; CD226; DNAM1

## Immunogen Information:

**Sequence:** Glu19-Asn247

## Background:

Human DNAX accessory molecule 1 (DNAM/CD226) is a 65 kDa type I transmembrane glycoprotein in the immunoglobulin superfamily. Mature human DNAM contains an extracellular domain (ECD) with two Ig-like C2-set domains and a cytoplasmic region that contains motifs for binding PDZ domains and band 4.1 family proteins. DNAM is expressed on multiple lymphoid and myeloid cells and interacts with CD155 and CD112. Ligation of DNAM promotes the activation of NK cells, CD8+ T cells, and mast cells, dendritic cell maturation, megakaryocyte and activated platelet adhesion to vascular endothelial cells, and monocyte extravasation; it inhibits the formation of osteoclasts. Platelet-endothelium interactions mediated by DNAM, enable the metastasis of tumor cells to the lung.