



Recombinant Protein Technical Manual
Recombinant Mouse CD226/DNAM Protein (His Tag)
RPES0400

Product Data:

Product SKU: RPES0400

Size: 10µg

Species: Mouse

Expression host: Human Cells

Uniprot: NP_848802.2

Protein Information:

Molecular Mass: 27.6 kDa

AP Molecular Mass: 35-50 kDa

Tag: C-6His

Bio-activity:

Purity: > 95 % as determined by 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 a 0.2 µm filtered solution of PBS, pH7.4.

Reconstitution: Please refer to it for detailed information.

Application:

Synonyms: CD226 antigen; platelet and T cell activation antigen 1; CD226 molecule; DNAM1 adhesion glycoprotein; DNAM;DNAX accessory molecule; DNAX accessory molecule 1; PTA1; T lineage-specific activation antigen 1 antigen; CD226; PTA1; TLI SA1;BC051526;DNAM;DNAM1;Pta1;TLISA1

Immunogen Information:

Sequence: Glu19-Pro254

Background:

Mouse DNAX accessory molecule(DNAM) is a type I transmembrane glycoprotein that belongs to the immunoglobulin superfamily. As an activating receptor, it interacts with the ligands CD155 and CD112, and activates natural killer (NK) cells via its immunoreceptor tyrosine-based activatory motif (ITAM). Mature mouse DNAM has extracellular domain (ECD) that contains two Ig-like C2-set domains, and possesses a cytoplasmic region that contains motifs for binding PDZ domains. DNAM is expressed on several lymphoid and myeloid cell types and interacts with CD155/PVR and Nectin-2/CD112. Ligation of DNAM promotes the activation of NK cells, CD8+ T cells, and mast cells, induces dendritic cell maturation, initiates megakaryocyte and activated platelet adhesion to vascular endothelial cells, and stimulates monocyte extravasation. Conversely, it inhibits the formation of osteoclasts. Platelet-endothelium interactions that are mediated by DNAM enable the metastasis of tumor cells to the lung.