

Product Name: Recombinant Mouse DNAM-1 (C-6His)
Catalog #: PHM0540

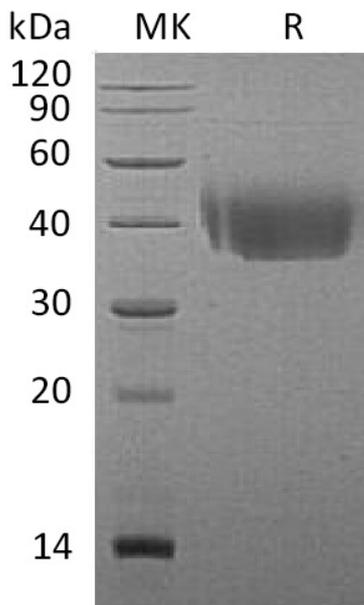


Summary

Name	DNAM-1/CD226/CD226 Antigen/DNAX Accessory Molecule-1
Purity	Greater than 95% as determined by reducing SDS-PAGE
Endotoxin level	<1 EU/μg as determined by LAL test.
Construction	Recombinant Mouse DNAX Accessory Molecule-1 is produced by our Mammalian expression system and the target gene encoding Glu19-Pro254 is expressed with a 6His tag at the C-terminus.
Accession #	Q8K4F0
Host	Human Cells
Species	Mouse
Predicted Molecular Mass	27.6 KDa
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature listed below.
Stability&Storage	Lyophilized protein should be stored at ≤ -20°C, stable for one year after receipt. Reconstituted protein solution can be stored at 2-8°C for 2-7 days. Aliquots of reconstituted samples are stable at ≤ -20°C for 3 months.
Reconstitution	Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100μg/ml. Dissolve the lyophilized protein in distilled water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

SDS-PAGE image

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Alternative Names

CD226 antigen; platelet and T cell activation antigen 1; CD226 molecule; DNAM1 adhesion glycoprotein; DNAM-1; DNAX accessory molecule-1; DNAX accessory molecule 1; PTA1; T lineage-specific activation antigen 1 antigen; CD226; PTA1; TLISA1

Background

Mouse DNAX accessory molecule-1 (DNAM-1) 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-1 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-1 is expressed on several lymphoid and myeloid cell types and interacts with CD155/PVR and Nectin-2/CD112. Ligation of DNAM-1 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-1 enable the metastasis of tumor cells to the lung.

Note

For Research Use Only , Not for Diagnostic Use.