

Rev03  
 Update: Dec,14,2021

**DATASHEET**

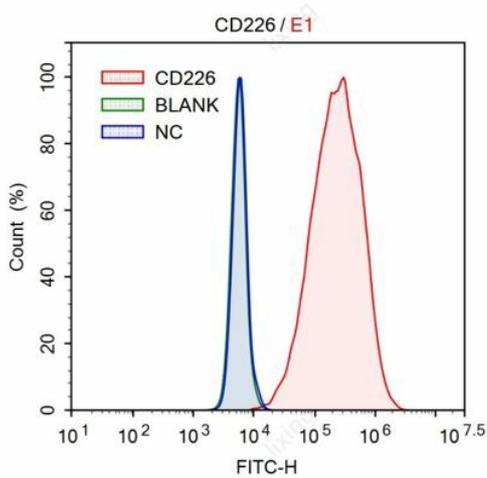
# DNAM-1/CD226, His, Human

Cat. No.: Z03455

## Product Introduction

<b>Species</b>	Human
<b>Protein Construction</b>	<div style="display: flex; align-items: center; justify-content: center;"> <div style="background-color: #0056b3; color: white; padding: 5px; margin-right: 10px;">           DNAM-1/CD226 (Glu19-Asn247)            Accession # Q15762         </div> <div style="background-color: #76b82a; color: white; padding: 5px; margin-left: 10px;">           Poly-His         </div> </div> <div style="display: flex; justify-content: space-around; margin-top: 5px;"> <span>N-term</span> <span>C-term</span> </div>
<b>Purity</b>	> 90% as analyzed by SDS-PAGE
<b>Endotoxin Level</b>	< 1 EU/μg of protein by gel clotting method
<b>Biological Activity</b>	DNAM-1/CD226, His, Human can bind with CHO-K1/aAPC/CD155 Clone by FACS analysis.
<b>Expression System</b>	HEK 293
<b>Apparent Molecular Weight</b>	~39.3 kDa, on SDS-PAGE under reducing conditions.
<b>Formulation</b>	Lyophilized from a 0.2 μm filtered solution in PBS.
<b>Reconstitution</b>	It is recommended that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute the lyophilized powder in ddH <sub>2</sub> O or PBS up to 100 μg/ml.
<b>Storage &amp; Stability</b>	Upon receiving, this product remains stable for up to 6 months at lower than -70°C. Upon reconstitution, the product should be stable for up to 1 week at 4°C or up to 3 months at -20°C. For long term storage it is recommended that a carrier protein (example 0.1% BSA) be added. Avoid repeated freeze-thaw cycles.

## Examples



FACS analysis of DNAM-1/CD226, His, Human (Cat. No: Z03455) and CHO-K1/aAPC/CD155 Clone (CHO-K1 cell overexpressing human CD155), compared with blank control (green line, untreated cell) and negative control (blue line, only treated with THE™ His Tag Antibody [iFluor 488], mAb, Mouse (Cat. No. A01800)), DNAM-1/CD226, His, Human can bind with CHO-K1/aAPC/CD155 Clone.

## Background

**Target Background :** CD226 (Cluster of Differentiation 226), also known as PTA1 (outdated term, 'platelet and T cell activation antigen 1')[5] or DNAM-1 (DNAX Accessory Molecule-1), is a ~65 kDa glycoprotein expressed on the surface of natural killer cells, platelets, monocytes and a subset of T cells. It is a member of the immunoglobulin superfamily. This protein is involved in intercellular adhesion, lymphocyte signaling, cytotoxicity and lymphokine secretion mediated by cytotoxic T-lymphocyte (CTL) and NK cell. It is the cell surface receptor for NECTIN2 and its main ligands are CD112 and CD155. It stimulates T-cell proliferation and cytokine production, including that of IL-2, IL-5, IL-10, IL-13, and IFN $\gamma$  upon ligand binding.

**Synonyms :** DNAM-1; DNAM1; PTA1; TLISA1; CD226 molecule

**For laboratory research use only. Direct human use, including taking orally and injection and clinical use are forbidden.**