

Human CD166 Protein; hFc Tag

Product Information

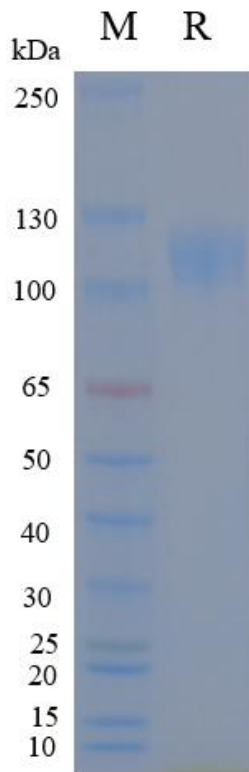
Product Name	Human CD166 Protein; hFc Tag
Storage temp	Store at $\leq -70^{\circ}\text{C}$, stable for 6 months after receipt. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
Catalog# / Size	GM-87264RP-100 / 100 μg GM-87264RP-1000 / 1 mg

Protein Information

Alternative Names	ALCAM, CD6L, KG-CAM, MEMD
Source	Human CD166 Protein; hFc Tag (GM-87264RP) is expressed from human 293 cells (HEK-293). It contains AA Trp 28 - Ala 526 (Accession # NP_001618). This protein carries a hFc tag at the C-terminus.
Purity	> 95% as determined by SDS-PAGE
Endotoxin	< 1 EU/ μg , determined by LAL gel clotting assay
Predicted Mol Mass	81.9 kDa
Formulation	Supplied as a 0.2 μm filtered solution of PBS, pH7.2-7.4.
Description	CD166 protein, full name Cluster of Differentiation 166, also known as Activated Leukocyte Cell Adhesion Molecule (ALCAM), is an important cell surface glycoprotein and a member of the immunoglobulin superfamily. CD166 protein plays a crucial role in mediating cell-cell adhesion, hematopoiesis, immune responses, and neural development in normal cells. In tumor cells, overexpression of CD166 protein has been identified as a cancer stem cell (CSC) marker, which can promote tumor initiation, self-renewal, invasion, and chemotherapy resistance, thereby facilitating tumor aggressiveness and poor clinical outcomes. Currently, CD166-targeted therapeutic strategies are under active investigation, including monoclonal antibodies (e.g., BAY-1179470, also known as CH-9003), antibody-drug conjugates (ADCs), and chimeric antigen receptor T-cell (CAR-T) therapies, which aim to inhibit tumor growth and metastasis by disrupting CD166-mediated cell adhesion and signaling pathways, thereby potentially improving patient survival rates and prognosis. In summary, CD166 protein plays a pivotal role in tumorigenesis and cancer progression, and holds great significance for understanding tumor biology, identifying cancer stem cells, developing novel targeted immunotherapies, and evaluating patient prognosis.

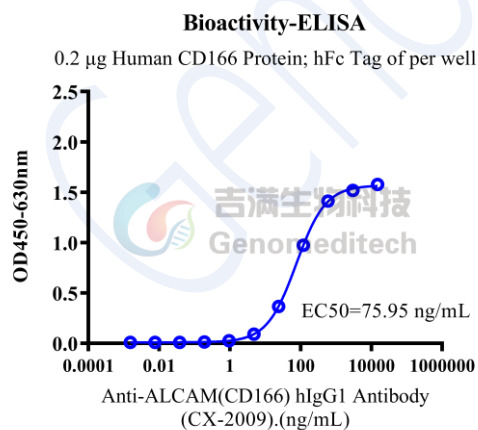
Version:4.0

SDS-PAGE



On SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

Bioactivity-ELISA



Human CD166 Protein; hFc Tag (Catalog # GM-87264RP) was immobilized at 2 µg/ml (100 µL/well). Increasing concentrations of Anti-ALCAM(CD166) hIgG1 Antibody (CX-2009) (Catalog # GM-87693AB) were added.