

Human PDL2 Protein; hFc Tag

Product Information

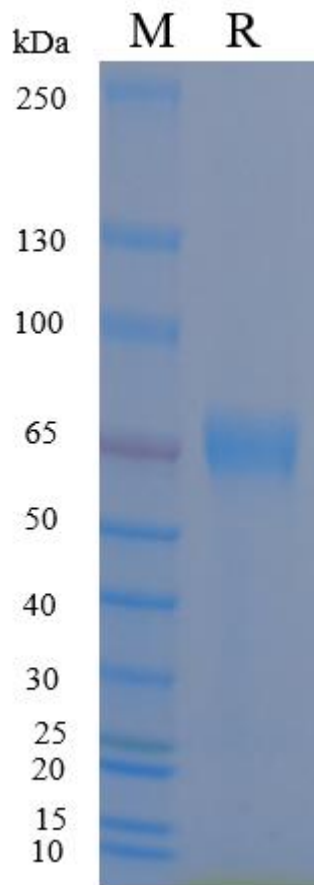
Product Name	Human PDL2 Protein; hFc Tag
Storage temp	Store at $\leq -70^{\circ}\text{C}$, stable for 6 months after receipt. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Catalog# / Size	GM-88680RP-100 / 100 μg GM-88680RP-1000 / 1 mg
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Protein Information

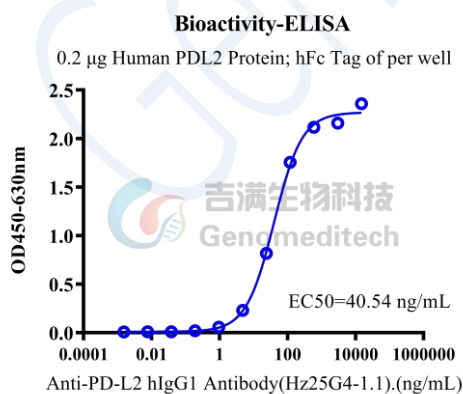
Alternative Names	Butyrophilin B7-DC, CD273, PDCD1 ligand 2, PDCD1L2, PDCD1LG2
Source	Human PDL2 Protein; hFc Tag (GM-88680RP) is expressed from human 293 cells (HEK-293). It contains AA Leu 20 - Pro 219 (Accession # AAI13679). This protein carries a hFc tag at the C-terminus.
Purity	> 95% as determined by SDS-PAGE
Endotoxin	< 1 EU/ μg , determined by LAL gel clotting assay
Predicted Mol Mass	48.5 kDa
Formulation	Supplied as a 0.2 μm filtered solution of PBS, pH7.2-7.4.
Description	PDL2 protein, full name Programmed Cell Death 1 Ligand 2, also known as PD-L2 or B7-DC, is an important immune checkpoint protein and a member of the B7 family of immunoregulatory molecules. Abnormal expression of PDL2 protein is closely associated with the occurrence, progression, and immune evasion of various malignant tumors, including non-small cell lung cancer, gastric cancer, ovarian cancer, head and neck squamous cell carcinoma, and hematological malignancies. In tumor cells and tumor-infiltrating immune cells, overexpression of PDL2 protein contributes to an immunosuppressive tumor microenvironment by engaging the PD-1 receptor on effector T cells, leading to T cell exhaustion, reduced cytotoxic activity, and impaired antitumor immunity, thereby facilitating tumor immune evasion, disease progression, and poor clinical outcomes. In summary, PDL2 protein plays a pivotal role in tumor immune evasion and cancer progression, and holds great significance for understanding tumor immunology, identifying predictive biomarkers for immunotherapy, developing novel immune checkpoint inhibitors, and evaluating patient prognosis in the era of precision immuno-oncology.

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 PDL2 Protein; hFc Tag (Catalog # GM-88680RP) was immobilized at 2 µg/ml (100 µL/well). Increasing concentrations of Anti-PD-L2 hIgG1 Antibody (Hz25G4-1.1) (Catalog # GM-79817AB) were added.