

PD-L1 Protein, Mouse (Biotinylated, HEK293, His)

Cat. No.:	HY-P77819
Synonyms:	CD274; PDL1; PD-L1; PD-L1B7 homolog 1; B7-H; B7H1; B7-H1; PD-1; PDCD1LG1
Species:	Mouse
Source:	HEK293
Accession:	Q9EP73 (F19-T238)
Gene ID:	60533
Molecular Weight:	45-60 kDa

PROPERTIES

Appearance	Solution.
Formulation	Supplied as a 0.22 µm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	N/A.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background	PD-L1 protein plays a crucial role in maintaining immune tolerance to self by acting as a ligand for the inhibitory receptor PDCD1/PD-1. This interaction modulates the activation threshold of T-cells, limiting their effector response and potentially stimulating T-cell subsets that produce interleukin-10 (IL10). However, tumors exploit the PDCD1-mediated inhibitory pathway to attenuate anti-tumor immunity and evade destruction by the immune system, thereby promoting tumor survival. The interaction between PD-L1 and PDCD1/PD-1 inhibits the function of cytotoxic T lymphocytes (CTLs), but blocking this pathway can reverse the exhausted T-cell phenotype and normalize the anti-tumor response, offering a promising strategy for cancer immunotherapy.
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Caution: Product has not been fully validated for medical applications. For research use only.

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