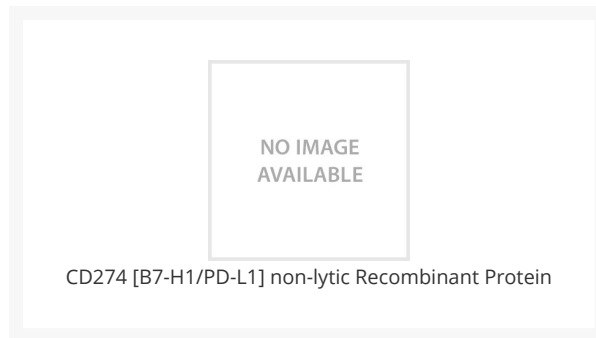




CD274 [B7-H1/PD-L1] non-lytic Recombinant Protein

Cat. No.: 90-432




Ψ Specifications

SPECIES:	Mouse
SOURCE SPECIES:	CHO cells
SEQUENCE:	The extracellular domain of mouse CD274 [B7-H1] (aa 19-237) is fused to the N-terminus of the Fc region of a mutant mouse IgG2a.
FUSION TAG:	Fc Tag
TESTED APPLICATIONS:	
APPLICATIONS:	This recombinant proteins is for research use only.

Ψ Properties

PURITY:	>98% (SDS-PAGE). Endotoxin level is less than 0.06EU/ µg protein (LAL test; Lonza).
PHYSICAL STATE:	Lyophilized
BUFFER:	Lyophilized from 0.2µm-filtered solution in PBS. Reconstitute at 100 µg/ml in sterile PBS.
STORAGE CONDITIONS:	Stable for at least 1 year after receipt when stored at -20 °C. Working aliquots are stable for up to 3 months when stored at -20 °C.

OFFICIAL SYMBOL:	Cd274
ALTERNATE NAMES:	PD-L1, Programmed Cell Death 1 Ligand Protein 1, PDCD1 Ligand 1, B7-H1, PDL1
ACCESSION NO.:	NP_068693
PROTEIN GI NO.:	11230798
GENE ID:	60533

 Background and References

BACKGROUND:	<p>Programmed death ligand 1 (PD-L1, B7-H1 or CD274) is a member of the growing B7 family of immune proteins that provide signals for both stimulating and inhibiting T cell activation. CD274 has been identified as one of two ligands for programmed death 1 (PD-1), a member of the CD28 family of immunoreceptors. CD274 is widely expressed in several organs such as heart, skeletal muscle, placenta and lung, and in lower amounts in thymus, spleen, kidney and liver. CD274 expression is upregulated in a small fraction of activated T and B cells and a much larger fraction of activated monocytes. CD274 expression is also induced in dendritic cells and keratinocytes after IFN-gamma stimulation. CD274 expression is also upregulated in a variety of tumor cell lines. Interaction of CD274 with PD-1 results in inhibition of TCR mediated proliferation and cytokine production, suggesting an inhibitory role in regulating immune responses. The CD274 - PD-1 pathway is involved in the negative regulation of some immune responses and may play an important role in the regulation of peripheral tolerance.</p>
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