

Product datasheet

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ARG70229
Mouse CD274 / PD-L1 recombinant protein (His-tagged, C-ter)

Sto

Package: 100 μg Store at: -20°C

Summary

Product Description HEK293 expressed, His-tagged (C-ter) Mouse CD274 / PD-L1 recombinant protein.

Tested Reactivity Ms

Tested Application SDS-PAGE

Target Name CD274 / PD-L1

Species Mouse

A.A. Sequence Met1 - Thr238 of Mouse CD274 / PD - L1 (NP_068693) with polyhistidine tag at the C - terminus.

Expression System HEK293

Alternate Names Programmed cell death 1 ligand 1; B7-H1; B7H1; PDL1; PDCD1 ligand 1; B7 homolog 1; PD-L1; CD

antigen CD274; PDCD1L1; B7-H; Programmed death ligand 1; PDCD1LG1

Application Instructions

Application Note Binding activity test: Measured by its binding ability in a functional ELISA. Immobilized Recombinant

Mouse PD-L1 at 10 μ g/ml (100 μ l/well) can bind Recombinant Mouse PD-1 with a linear range of 1.5 - 5

μg/ml.

Properties

Form Powder

Purification Note $0.22 \mu m$ filter sterilized. Purity > 95% (by SDS-PAGE)

Buffer PBS (pH 7.4)

Reconstitution Reconstitute to a concentration of 0.1 - 0.5 mg/ml in sterile distilled water.

Storage instruction For long term, lyophilized protein should be stored at -20°C or -80°C. After reconstitution, aliquot and

store at -20°C for up to one month, at 2-8°C for up to one week. Storage in frost free freezers is not

recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening.

Note For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol CD274

Gene Full Name CD274 molecule

Background This gene encodes an immune inhibitory receptor ligand that is expressed by hematopoietic and non-

hematopoietic cells, such as T cells and B cells and various types of tumor cells. The encoded protein is a type I transmembrane protein that has immunoglobulin V-like and C-like domains. Interaction of this ligand with its receptor inhibits T-cell activation and cytokine production. During infection or inflammation of normal tissue, this interaction is important for preventing autoimmunity by

inflammation of normal tissue, this interaction is important for preventing autoimmunity by maintaining homeostasis of the immune response. In tumor microenvironments, this interaction

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provides an immune escape for tumor cells through cytotoxic T-cell inactivation. Expression of this gene in tumor cells is considered to be prognostic in many types of human malignancies, including colon cancer and renal cell carcinoma. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2015]

Function

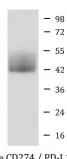
Plays a critical role in induction and maintenance of immune tolerance to self (PubMed:11015443, PubMed:28813417, PubMed:28813410). As a ligand for the inhibitory receptor PDCD1/PD-1, modulates the activation threshold of T-cells and limits T-cell effector response (PubMed:11015443, PubMed:28813417, PubMed:28813410). Through a yet unknown activating receptor, may costimulate T-cell subsets that predominantly produce interleukin-10 (IL10) (PubMed:10581077).

The PDCD1-mediated inhibitory pathway is exploited by tumors to attenuate anti-tumor immunity and escape destruction by the immune system, thereby facilitating tumor survival (PubMed:28813417, PubMed:28813410). The interaction with PDCD1/PD-1 inhibits cytotoxic T lymphocytes (CTLs) effector function (By similarity). The blockage of the PDCD1-mediated pathway results in the reversal of the exhausted T-cell phenotype and the normalization of the anti-tumor response, providing a rationale for cancer immunotherapy (By similarity). [UniProt]

Cellular Localization

Cell membrane; Single-pass type I membrane protein. Early endosome membrane; Single-pass type I membrane protein. Recycling endosome membrane; Single-pass type I membrane protein. Note=Associates with CMTM6 at recycling endosomes, where it is protected from being targeted for lysosomal degradation. Isoform 1: Cell membrane; Single-pass type I membrane protein. Isoform 2: Endomembrane system; Single-pass type I membrane protein. [UniProt]

Images



Mouse CD274 / PD-L1 recombinant protein (His-tagged, C-ter) ARG70229 Mouse CD274 / PD-L1 recombinant protein (His-tagged, Cter) SDS-PAGE image

SDS-PAGE analysis of ARG70229 Mouse CD274 / PD-L1 recombinant protein (His-tagged, C-ter).