

Recombinant Human CD274 Protein(19-239aa), His tagged, Alexa Fluor 488 Labeled

Cat. No. CD274-13HAF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CD274 Protein (19-239aa), was expressed in Human embryonic kidney cell with C-terminal 6-His tag and Alexa Fluor 488 conjugate.
Species	Human
Source	HEK293
ProteinLength	19-239 aa
Description	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 maintaining homeostasis of the immune response. In tumor microenvironments, this interaction 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.
Conjugation/Label	Alexa Fluor 488
Bio-activity	Measured by flow cytometry for its ability to bind anti-human PD-L1/B7-H1

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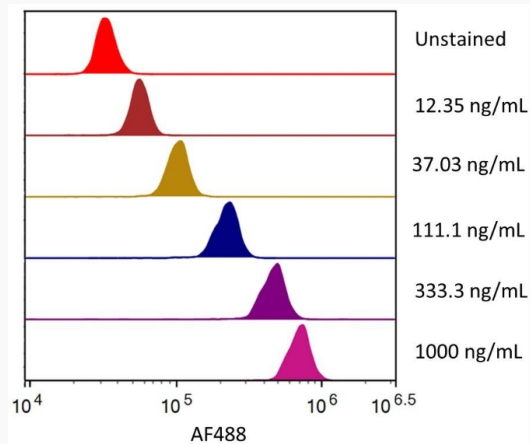
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	Monoclonal Antibody conjugated beads. The concentration of Recombinant Human PD-L1/B7-H1 His-tag Alexa Fluor 488 that produces 50% of the binding response is 3.00-30.0 ng/mL.
Molecular Mass	Predicted Molecular Mass: 26 kDa SDS-PAGE: 31-41 kDa, under reducing conditions.
Endotoxin	<1.0 EU/μg of the protein by the LAL method.
Purity	>95%, by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie Blue Staining.
N-terminal Sequence Analysis	Phe19
Storage	Protect from light. Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 6 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after opening. 3 months, -20 to -70 centigrade under sterile conditions after opening.
Storage Buffer	Supplied as a 0.2 μm filtered solution in PBS and NaCl with BSA as a carrier protein.
Shipping	The product is shipped with dry ice or equivalent.
References	1. Ceeraz, S. et al. (2013) Trends Immunol. 34:556. 2. Dong, H. et al. (1999) Nat. Med. 5:1365. 3. Frigola, X. et al. (2011) Clin. Cancer Res. 17:1915.
Conjugation	Alexa Fluor 488

GENE INFORMATION

Gene Name	CD274 CD274 molecule [Homo sapiens (human)]
Official Symbol	CD274
Synonyms	CD274; CD274 molecule; B7-H; B7H1; PDL1; PD-L1; hPD-L1; PDCD1L1; PDCD1LG1; programmed cell death 1 ligand 1; B7 homolog 1; CD274 antigen; PDCD1 ligand 1
Gene ID	29126
mRNA Refseq	NM_001267706
Protein Refseq	NP_001254635
MIM	605402
UniProt ID	Q9NZQ7

Flow Cytometry

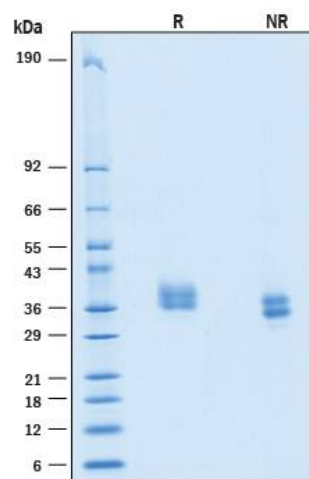


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SDS-PAGE



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