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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Catalogue

nordicmubio.com/products/cd274-pd-l1/CD274-0_point_5

CD274, PD-L1

Catalog number: **CD274-0.5**

Clone	ZR3
Isotype	IgG
Product Type	Primary Antibodies
Units	0.5 ml
Host	Rabbit
Species Reactivity	Human
Application	Immunohistochemistry (frozen) Immunohistochemistry (paraffin)

Background

Programmed cell death ligand 1 (PD-L1) also known as cluster of differentiation (CD274) or B7 homolog 1 (B7-H1) is a type 1 transmembrane protein involved in the regulation of cellular and humoral immune responses. The interaction of PD-L1 with its receptor PD-1 provides both stimulatory and inhibitory signals in regulating T cell activation and tolerance during pregnancy, tissue allograft, autoimmune disease and malignant transformation. The binding of PD-L1 to PD-1 induces apoptosis or exhaustion in activated T cells, and blockade of this interaction has been shown to enhance the antitumor activity of T cells. PD-L1 is frequently over expressed in placenta, and many human tumours such as melanoma, diffuse large B-cell lymphoma, and carcinomas of the lung, bladder, breast, kidney and colon.

Synonyms: Human CD274, PD-L1.

Source

Rabbits were immunized with KLH-conjugated linear peptide from human PD-L1

Product

Antibody solution in stabilizing phosphate buffer pH 7.3. Contains 0.09 % sodium azide.**

Specificity

Species Reactivity: Human

Applications

IHC(C, P)

Working Concentration: (liquid conc.) 1:50-1:100

Pre-Treatment: Unmasking with Unmasking fluid E (Art. No. DE006) pH 9.0 or Unmasking fluid T (DE005) pH 8.0

Positive Control: Placenta, lung carcinoma (NSCLC)

Storage

The antibody may be stored at +4°C. For prolonged storage prepare appropriate aliquots and store at or below -20°C. Prior to use, an aliquot is thawed slowly in the dark at ambient temperature, spun down again and used to prepare working dilutions by adding sterile phosphate buffered saline (PBS, pH 7.2). Repeated thawing and freezing should be avoided. Working dilutions should be stored at +4°C, not refrozen, and preferably used the same day. If a slight precipitation occurs upon storage, this should be removed by centrifugation. It will not affect the performance or the concentration of the product.

Shipping Conditions: Ship at ambient temperature.

Caution

This product is intended FOR RESEARCH USE ONLY, and FOR TESTS IN VITRO, not for use in diagnostic or therapeutic procedures involving humans or animals. It may contain hazardous ingredients. Please refer to the Safety Data Sheets (SDS) for additional information and proper handling procedures. Dispose product remainders according to local regulations. This datasheet is as accurate as reasonably achievable, but Exalpha Biologicals accepts no liability for any inaccuracies or omissions in this information.

References

1. Ishida, Agata, Shibahara et al. (1992) Induced expression of PD-1, a novel member of the immunoglobulin gene superfamily, upon programmed cell death. EMBO Journal, Vol. 11, Issue 11, pp. 3887-95
2. Wang W, Li H, Xu F, DU H, Li X, Yi J, Wang G, Luan X. Xi Bao (2016) IFN-gamma up-regulates PD-L1 expression in human placenta mesenchymal stem cells and enhances cell ability to induce the differentiation of IL-10+ T cells from cord blood- and peripheral blood-derived T cells. Yu Fen Zi Mian Yi Xue Za Zhi. 32(2):191-5. Chinese PMID 26927379
3. Benjamin J. Chen, Bjoern Chapuy, Jing Ouyang, et al. (2013) PD-L1 Expression Is Characteristic of a Subset of Aggressive B-cell Lymphomas and Virus-Associated Malignancies. Clinical Cancer Research, 19; 3462-73. CCR-13-0855

Protein Reference(s)

Database Name: UniProt

Accession Number: Q9NZQ7 (PD1L1_HUMAN)

Species Accession: Human

Safety Datasheet(s) for this product:

NM_Sodium Azide