

Nur für Forschungszwecke

PD-1/CD279 Monoklonaler Antikörper



Katalog-Nr.: 66220-1-Ig **22 Publikationen**

Allgemeine Informationen

Katalog-Nr.: 66220-1-Ig	GenBank-Zugangsnummer: BC074740	Reinigungsmethode: Protein-A-Reinigung
Größe: 150ul, Konzentration: 1500 µg/ml von 5133 Nanodrop;	GeneID (NCBI): 5133	CloneNo.: 4H4D1
Wirt: Maus	Vollständiger Name: programmed cell death 1	Empfohlene Verdünnungen: WB 1:2000-1:10000 IHC 1:2000-1:8000 IF 1:200-1:800
Isotyp: IgG2b	Berechnete Masse: 288 aa, 32 kDa	
Immunogen Katalognummer: AG12470	Beobachtete Masse: 32 kDa, 47-55 kDa	

Anwendungen

Geprüfte Anwendungen:

FC, IF, IHC, WB, ELISA

In Publikationen genannte Anwendungen:

FC, IF, IHC, WB

Getestete Reaktivität:

Human, Maus, Ratte

Zitierte Arten:

Human, Maus, Ratte

Hinweis-IHC: Antigendemaskierung mit TE-Puffer pH 9,0 empfohlen. (*) Wahlweise kann die Antigendemaskierung auch mit Citratpuffer pH 6,0 erfolgen.

Positivkontrollen:

WB: Maus-Thymusgewebe, humanes Lymphknotengewebe, Rattenmilzgewebe

IHC: humanes Tonsillitisgewebe, humanes Lymphomgewebe

IF: humanes Tonsillitisgewebe,

Hintergrundinformationen

Programmed cell death 1 (PD-1, also known as CD279) is an immunoinhibitory receptor that belongs to the CD28/CTLA-4 subfamily of the Ig superfamily. It is a 288 amino acid (aa) type I transmembrane protein composed of one Ig superfamily domain, a stalk, a transmembrane domain, and an intracellular domain containing an immunoreceptor tyrosine-based inhibitory motif (ITIM) as well as an immunoreceptor tyrosine-based switch motif (ITSM) (PMID: 18173375). PD-1 is expressed during thymic development and is induced in a variety of hematopoietic cells in the periphery by antigen receptor signaling and cytokines (PMID: 20636820). Engagement of PD-1 by its ligands PD-L1 or PD-L2 transduces a signal that inhibits T-cell proliferation, cytokine production, and cytolytic function (PMID: 19426218). It is critical for the regulation of T cell function during immunity and tolerance. Blockade of PD-1 can overcome immune resistance and also has been shown to have antitumor activity (PMID: 22658127; 23169436). The calculated molecular weight of PD-1 is 32 kDa. It has been reported that PD-1 is heavily glycosylated and migrates with an apparent molecular mass of 47-55 kDa on SDS-PAGE (PMID: 8671665; 17640856; 17003438).

Bemerkenswerte Veröffentlichungen

Verfasser	Pubmed ID	Journal	Anwendung
Weili Xu	34600949	Immunol Lett	IF
Christian Spurny	28868758	Pediatr Blood Cancer	IHC
Yulin Deng	36505457	Front Immunol	WB

Lagerung

Lagerungsbedingungen:

Bei -20°C lagern. Nach dem Versand ein Jahr lang stabil

Lagerungspuffer:

PBS mit 0.02% Natriumazid und 50% Glycerin pH 7.3.

Aliquotieren ist nicht notwendig bei -20°C Lagerung

***** 20ul-Größen enthalten 0.1% BSA**

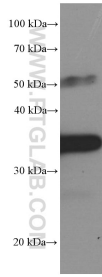
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

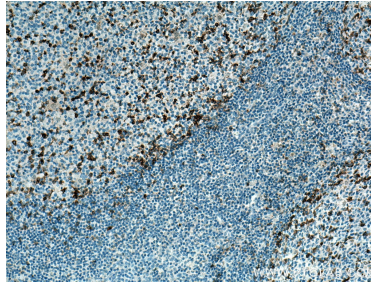
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

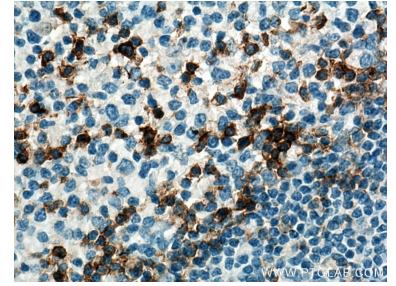
Ausgewählte Validierungsdaten



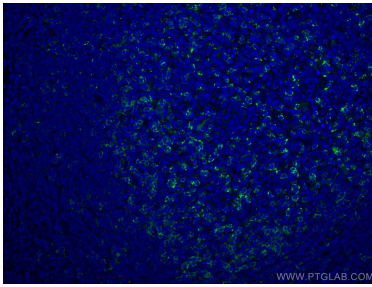
mouse thymus tissue were subjected to SDS PAGE followed by western blot with 66220-1-Ig (PD-1/CD279 Antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



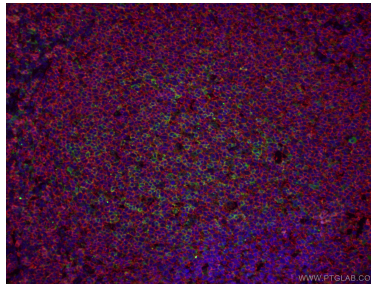
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 66220-1-Ig (PD-1/CD279 antibody) at dilution of 1:4000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



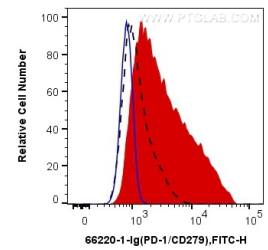
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 66220-1-Ig (PD-1/CD279 antibody) at dilution of 1:4000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed human tonsillitis tissue using PD-1/CD279 antibody (66220-1-Ig, Clone: 4H4D1) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



Immunofluorescent analysis of (4% PFA) fixed human tonsillitis tissue using PD-1/CD279 mouse mAb (66220-1-Ig) at dilution of 1:50 and CD20 rabbit pAb (24828-1-AP) at dilution of 1:50, further stained with Alexa Fluor 488-conjugated AffiniPure Goat Anti-Mouse IgG(H+L) for 66220-1-Ig, and Alexa Fluor 594-conjugated AffiniPure Goat Anti-Rabbit IgG (H+L) for 24828-1-AP.



1×10^6 unstimulated (dashed line) or PMA and ionomycin treated (red) MOLT-4 cells were surface stained with 0.2 ug Anti-Human PD-1/CD279 (66220-1-Ig, Clone: 4H4D1) and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) at dilution 1:1000, or 0.2 ug isotype control antibody (blue, solid line). Cells were not fixed.