À des fins de recherche uniquement

Anticorps Monoclonal anti-PD-1/CD279

proteintech®
Antibodies | ELISA kits | Proteins
www.ptglab.com

Numéro de catalogue:66220-1-Ig 24 Publications

Informations de base

Numéro de catalogue:
66220-1-Ig

Taille:
150ul , Concentration: 1500 μg/ml by Nanodrop;

Hôte:
Mouse

Isotype:
IgG2b

Immunogen Catalog Number:
AG12470

Numéro d'acquisition GenBank:
BC074740

Identification du gène (NCBI):
5133

Nom complet:
programmed cell death 1

MW calculé
288 aa, 32 kDa

MW observés:
32 kDa, 47-55 kDa

Méthode de purification:
Purification par protéine A

CloneNo.:
4H4D1

Dilutions recommandées:
WB 1:5000-1:50000
IHC 1:2000-1:8000
IF 1:200-1:800

Applications

Applications testées:
FC, IF, IHC, WB, ELISA

Demandes citées:
FC, IF, IHC, WB

Spécificité de l'espèce:
Humain, rat, souris

Espèces citées:
Humain, rat, souris

Remarque-IHC: il est suggéré de démasquer l'antigène avec un tampon de TE buffer pH 9.0; (*) À défaut, 'le démasquage de l'antigène peut être 'effectué avec un tampon citrate pH 6,0.

Contrôles positifs:

WB : cellules RAW 264.7, cellules Jurkat, tissu de ganglion lymphatique humain, tissu de thymus de souris, tissu splénique de rat

IHC : tissu d'amygdalite humain, tissu de lymphome humain

IF : tissu d'amygdalite humain,

Informations générales

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).

Publications notables

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

Stockage

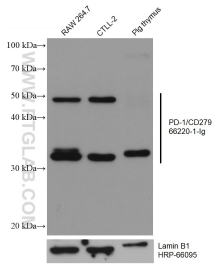
Stockage:
Stocker à -20°C. Stable pendant un an après l'expédition.
Tampon de stockage:
PBS avec azoture de sodium à 0,02 % et glycérol à 50 % pH 7,3
L'aliquotage n'est pas nécessaire pour le stockage à -20C

***** Les 20ul contiennent 0,1% de BSA.**

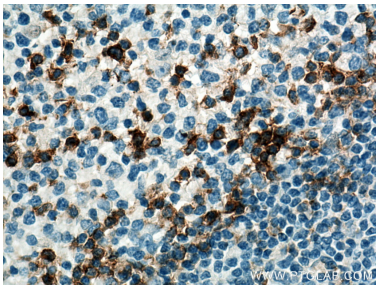
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

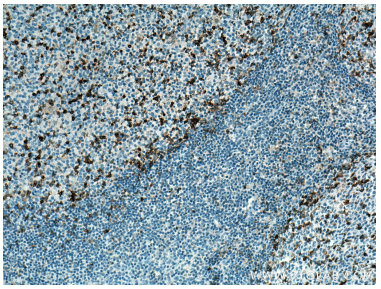
Données de validation sélectionnées



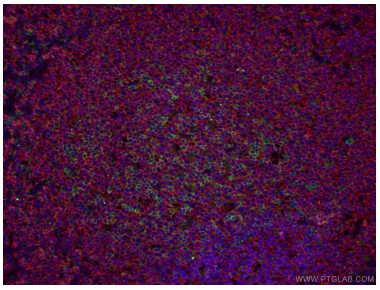
Various lysates were subjected to SDS PAGE followed by western blot with 66220-1-Ig (PD-1/CD279 antibody) at dilution of 1:15000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated Lamin B1 Monoclonal antibody (HRP-66095) as loading control.



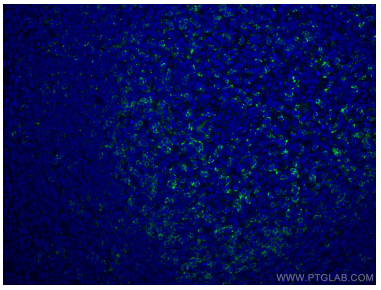
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 66220-1-Ig (PD-1/CD279 antibody) at dilution of 1:4000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



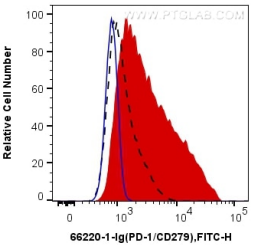
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 66220-1-Ig (PD-1/CD279 antibody) at dilution of 1:4000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



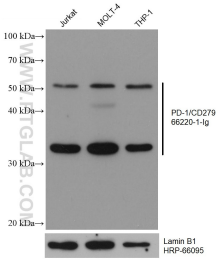
Immunofluorescent analysis of (4% PFA) fixed human tonsillitis tissue using PD-1/CD279 mouse mAb (66220-1-Ig) at dilution of 1:50 and CD20 rabbit pAb (24828-1-AP) at dilution of 1:50, further stained with Alexa Fluor 488-conjugated AffiniPure Goat Anti-Mouse IgG(H+L) for 66220-1-Ig, and Alexa Fluor 594-conjugated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



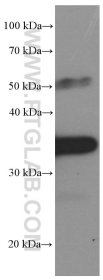
Immunofluorescent analysis of (4% PFA) fixed human tonsillitis tissue using PD-1/CD279 antibody (66220-1-Ig, Clone: 4H4D1) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



1X10^6 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.



Various lysates were subjected to SDS PAGE followed by western blot with 66220-1-Ig (PD-1/CD279 antibody) at dilution of 1:15000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated Lamin B1 Monoclonal antibody (HRP-66095) as loading control.



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.