For Research Use Only

PD-1/CD279 Polyclonal antibody

Catalog Number: 18106-1-AP

Featured Product

88 Publications



Basic Information

Catalog Number: GenBank Accession Number:

18106-1-AP BC074740
Size: GenelD (NCBI):

150ul, Concentration: 700 ug/ml by 5133

Nanodrop; UNIPROT ID:
Source: Q15116
Rabbit Full Name:

Isotype: programmed cell death 1

IgG Calculated MW:
Immunogen Catalog Number: 288 aa, 32 kDa

AG12470

Applications

Tested Applications:

IHC, IF-P, ELISA
Cited Applications:
IHC, IF, IP, CoIP

Species Specificity: human

Cited Species:

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Antigen affinity purification Recommended Dilutions: IHC: 1:500-1:2000 IF-P: 1:50-1:500

Purification Method:

Positive Controls:

IHC: human tonsillitis tissue, human lymphoma tissue

IF-P: human tonsillitis tissue,

Background Information

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). It has been reported that PD-1 is heavily glycosylated and migrates with an apparent molecular mass of 47-55 kDa on SDS-PAGE, which is larger than its predicted mass of 32 kDa (PMID: 8671665; 17640856; 17003438).

Notable Publications

Author	Pubmed ID	Journal	Application
Xingyu Peng	36248822	Front Immunol	
Damien J Zanker	33005415	Clin Transl Immunology	IHC
Hao Zhang	36136350	Brief Bioinform	IHC

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3 $\,$

Aliquoting is unnecessary for -20°C storage

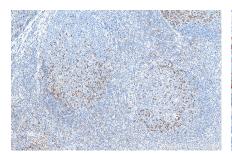
*** 20ul sizes contain 0.1% BSA

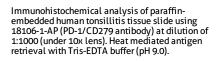
For technical support and original validation data for this product please contact:

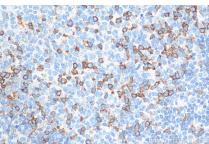
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

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.

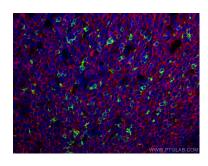
Selected Validation Data



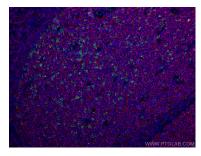




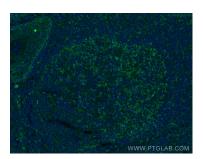
Immunohistochemical analysis of paraffinembedded human tonsillitis tissue slide using 18106-1-AP (PD-1/CD279 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed human tonsillitis tissue using 18106-1-AP (PD-1/CD279 rabbit polyclonal antibody) at dilution of 1:100 and 60271-1-1g (CD20 mouse monoclonal antibody) at dilution of 1:200, further stained with CoraLite488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) for 18106-1-AP, and CoraLite594-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) for 60271-1-1g.



Immunofluorescent analysis of (4% PFA) fixed human tonsillitis tissue using 18106-1-AP (PD-1/CD279 rabbit polyclonal antibody) at dilution of 1:100 and 60271-1-1g (CD20 mouse monoclonal antibody) at dilution of 1:200, further stained with CoraLite488-Conjugated Affini Pure Goat Anti-Rabbit 1gG(H+L) for 18106-1-AP, and CoraLite594-Conjugated Affini Pure Goat Anti-Mouse 1gG(H+L) for 60271-1-1g.



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded human tonsillitis tissue using PD-1/CD279 antibody (18106-1-AP) at dilution of 1:200 and CoraLite® 488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).