

For Research Use Only

PD-1/CD279 Polyclonal antibody, PBS Only

Catalog Number: 18106-1-PBS

Featured Product



Basic Information

Catalog Number:

18106-1-PBS

Size:

100ug , Concentration: 1mg/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG12470

GenBank Accession Number:

BC074740

GeneID (NCBI):

5133

UNIPROT ID:

Q15116

Full Name:

programmed cell death 1

Calculated MW:

288 aa, 32 kDa

Purification Method:

Antigen affinity purification

Applications

Tested Applications:

IHC, IF-P, ELISA

Species Specificity:

human

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).

Storage

Storage:

Store at -80°C.

Storage Buffer:

PBS only, pH7.3

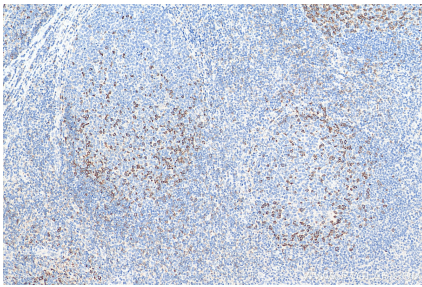
For technical support and original validation data for this product please contact:

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

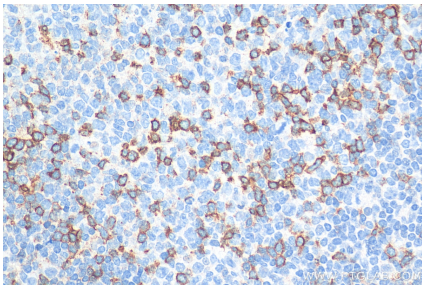
E: proteintech@ptglab.com
W: ptglab.com

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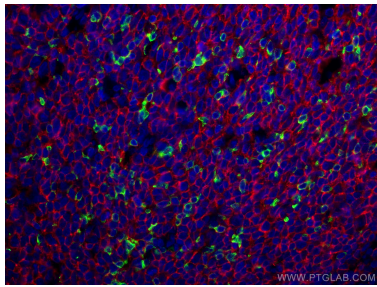
Selected Validation Data



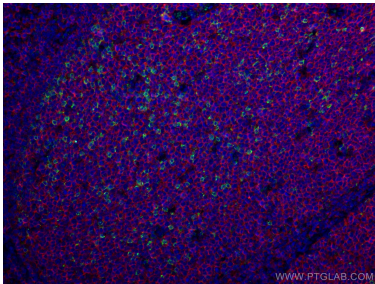
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 18106-1-AP (PD-1/CD279 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 18106-1-PBS in a different storage buffer formulation.



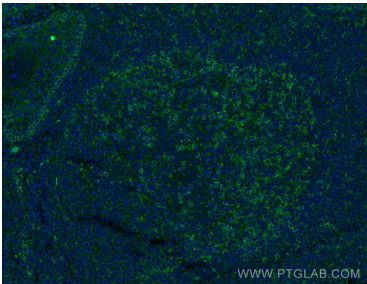
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 18106-1-AP (PD-1/CD279 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 18106-1-PBS in a different storage buffer formulation.



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-Ig (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-Ig. This data was developed using the same antibody clone



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-Ig (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-Ig. This data was developed using the same antibody clone



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). This data was developed using the same antibody clone with 18106-1-PBS in a different storage buffer formulation.