For Research Use Only

PD-1/CD279 Polyclonal antibody

Catalog Number:18106-1-AP

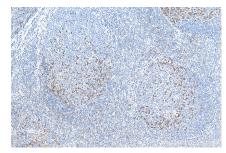
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76 Publications

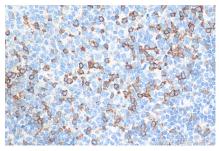


Catalog Number: GenBank Accession Number: **Purification Method: Basic Information** 18106-1-AP BC074740 Antigen affinity purification GenelD (NCBI): Recommended Dilutions: Size: 150ul , Concentration: 700 $\mu g/ml$ by 5133 IHC 1:500-1:2000 Nanodrop: IF 1:50-1:500 UNIPROT ID: Source Q15116 Rabbit Full Name: Isotype programmed cell death 1 lgG Calculated MW: Immunogen Catalog Number: 288 aa, 32 kDa AG12470 **Applications Tested Applications:** Positive Controls: IF, IHC, ELISA IHC : human tonsillitis tissue, human lymphoma tissue **Cited Applications:** IF : human tonsillitis tissue, WB, IP, IF, FC, IHC, CoIP Species Specificity: human Cited Species: human Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0 Programmed cell death 1 (PD-1, also known as CD279) is an immunoinhibitory receptor that belongs to the **Background Information** 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 pH 7.3. Aliquoting is unnecessary for -20°C storage *** 20ul sizes contain 0.1% BSA This product is exclusively available under Proteintech For technical support and original validation data for this product please contact: T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free E: proteintech@ptglab.com Group brand and is not available to purchase from any in USA), or 1(312) 455-8498 (outside USA) W: ptglab.com other manufacturer.

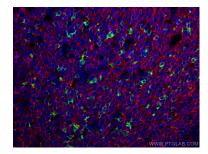
Selected Validation Data



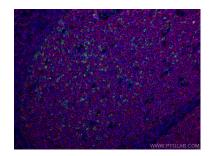
Immunohistochemical analysis of paraffinembedded human tonsillitis tissue slide using 18106-1-AP (PD-1/CD279 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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-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.



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.