For Research Use Only

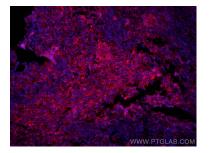
CoraLite®594-conjugated PD-1/CD279 Monoclonal antibody Catalog Number:CL594-66220 Featured Product proteintech Antibodies | ELISA kits | Proteins www.ptglab.com

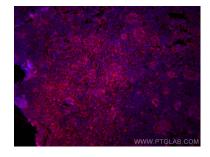
Basic Information	Catalog Number: CL594-66220	GenBank Accession Number: BC074740	Purification Method: Protein A purification				
	Size: 100ul , Concentration: 1000 ug/ml by Nanodrop; Source: Mouse Isotype: IgG2b Immunogen Catalog Number: AG12470	GeneID (NCBI): / 5133 UNIPROT ID: Q15116 Full Name: programmed cell death 1 Calculated MW: 288 aa, 32 kDa Observed MW: 32 kDa, 47-55 kDa	CloneNo.: 4H4D1 Recommended Dilutions: IF-P 1:50-1:500 Excitation/Emission maxima wavelengths: 588 nm / 604 nm				
				Applications	Tested Applications:	Positive Controls:	
					IF-P IF-P : human lymphoma tissue, Species Specificity: human, mouse, rat		
				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). 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).		
					hematopoietic cells in the periphery PD-1 by its ligands PD-L1 or PD-L2 tra cytolytic function (PMID: 19426218). I Blockade of PD-1 can overcome immu 22658127; 23169436). The calculated glycosylated and migrates with an ap	nsduces a signal that inhibits T-cel t is critical for the regulation of T c une resistance and also has been s I molecular weight of PD-1 is 32 kD	cytokines (PMID: 20636820). Engagement of l proliferation, cytokine production, and cell function during immunity and tolerance hown to have antitumor activity (PMID: Da. It has been reported that PD-1 is heavily

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 in USA), or 1(312) 455-8498 (outside USA) 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





Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded human angioimmunoblastic Tcell lymphoma tissue using CoraLite®594 PD-1/CD279 antibody (CL594-66220, Clone: 4H4D1) at dilution of 1:200. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).

Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded human angioimmunoblastic Tcell lymphoma tissue using CoraLite®594 PD-1/CD279 antibody (CL594-66220, Clone: 4H4D1) at dilution of 1:200. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).