

Nur für Forschungszwecke

# PD-1/CD279 Monoklonaler Antikörper



Katalog-Nr.: CL647-66220

2 Publikationen

## Allgemeine Informationen

<b>Katalog-Nr.:</b> CL647-66220	<b>GenBank-Zugangsnummer:</b> BC074740	<b>Reinigungsmethode:</b> Protein-A-Reinigung
<b>Größe:</b> 100ul, Konzentration: 2000 µg/ml von 5133 Nanodrop;	<b>GeneID (NCBI):</b> programmed cell death 1	<b>CloneNo.:</b> 4H4D1
<b>Wirt:</b> Maus	<b>Vollständiger Name:</b> programmed cell death 1	<b>Empfohlene Verdünnungen:</b> IF 1:50-1:500
<b>Isotyp:</b> IgG2b	<b>Berechnete Masse:</b> 288 aa, 32 kDa	<b>Anregungs-/Emissionsmaxima-Wellenlängen:</b> 654 nm / 674 nm
<b>Immunogen Katalognummer:</b> AG12470		

## Anwendungen

<b>Geprüfte Anwendungen:</b> FC, IF	<b>Positivkontrollen:</b> IF : humanes Tonsillitgewebe,
<b>In Publikationen genannte Anwendungen:</b> FC, IF	
<b>Getestete Reaktivität:</b> Human, Maus, Ratte	
<b>Zitierte Arten:</b> Maus, Ratte	

## Hintergrundinformationen

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).

## Bemerkenswerte Veröffentlichungen

Verfasser	Pubmed ID	Journal	Anwendung
Kirsten M Reeves	34615724	Clin Cancer Res	IF
Wanyue Cao	35706097	Transplantation	FC

## Lagerung

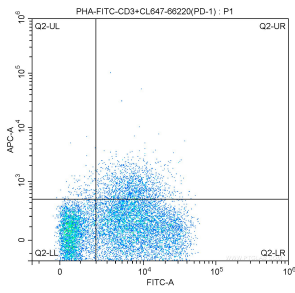
**Lagerungsbedingungen:**  
Bei -20°C lagern. Vor Licht schützen. Nach dem Versand ein Jahr stabil.  
**Lagerungspuffer:**  
BS mit 50% Glycerin, 0,05% Proclin300, 0,5% BSA, pH 7,3.  
Aliquotieren ist nicht notwendig bei -20°C Lagerung

\*\*\* 20ul-Größen enthalten 0.1% BSA

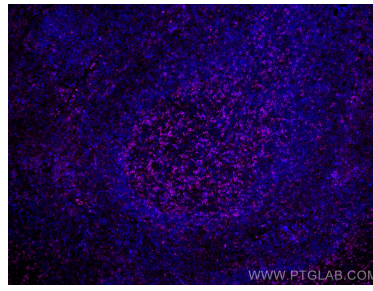
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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

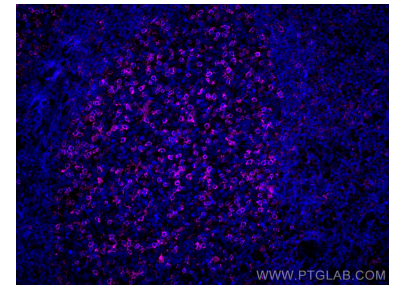
## Ausgewählte Validierungsdaten



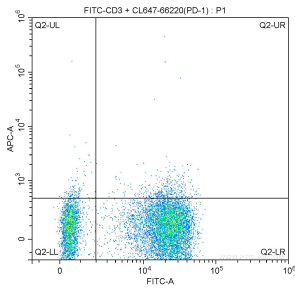
1X10<sup>6</sup> PHA-stimulated (5 µg/mL, overnight) human peripheral blood mononuclear cells (PBMCs) were surface stained with 0.20 µg CoraLite647-conjugated Anti-Human PD-1/CD279 (CL647-66220, clone: 4H4D1) and 0.20 µg FITC-Anti-Human CD3 (FITC-65151, clone UCHT1). Cells were not fixed.



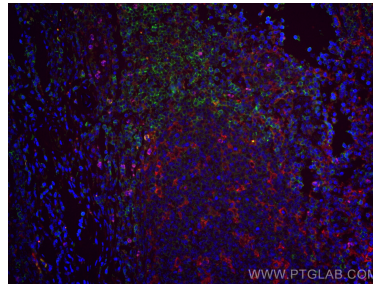
Immunofluorescent analysis of (4% PFA) fixed human tonsillitis tissue using CoraLite® Plus 647 PD-1/CD279 antibody (CL647-66220, Clone: 4H4D1) at dilution of 1:100.



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Immunofluorescent analysis of (4% PFA) fixed human tonsillitis tissue using CoraLite® Plus 647 PD-1/CD279 antibody (CL647-66220, Clone: 4H4D1) at dilution of 1:200, CoraLite® 594 CD11c/Integrin Alpha X antibody (CL594-60258, Clone: 2F1C10, red), CoraLite® 488 CD8 antibody (CL488-66868, Clone: 1G2B10, green).