

À des fins de recherche uniquement

# Anticorps Monoclonal anti-PD-1/CD279



Numéro de catalogue: **CL488-66220**

## Informations de base

<b>Numéro de catalogue:</b> CL488-66220	<b>Numéro d'acquisition GenBank:</b> BC074740	<b>Méthode de purification:</b> Purification par protéine A
<b>Taille:</b> 100ul , Concentration: 2000 µg/ml by Nanodrop;	<b>Identification du gène (NCBI):</b> 5133	<b>CloneNo.:</b> 4H4D1
<b>Hôte:</b> Mouse	<b>Nom complet:</b> programmed cell death 1	<b>Dilutions recommandées:</b> IF 1:50-1:500
<b>Isotype:</b> IgG2b	<b>MW calculé</b> 288 aa, 32 kDa	<b>Excitation/Emission maxima wavelengths:</b> 493 nm / 522 nm
<b>Immunogen Catalog Number:</b> AG12470		

## Applications

<b>Applications testées:</b> FC, IF	<b>Contrôles positifs:</b> IF : tissu d'amygdalite humain,
<b>Spécificité de l'espèce:</b> Humain, rat, souris	

## Informations générales

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). This antibody is CL488(Ex/Em 488 nm/515 nm) conjugated.

## Stockage

**Stockage:**  
Stocker à -20 °C. Éviter toute exposition à la lumière. Stable pendant un an après l'expédition.  
**Tampon de stockage:**  
PBS avec glycérol à 50 %, Proclin300 à 0,05 % et BSA à 0,5 %, pH 7,3.  
L'aliquotage n'est pas nécessaire pour le stockage à -20C

**\*\*\* Les 20ul contiennent 0,1% de BSA.**

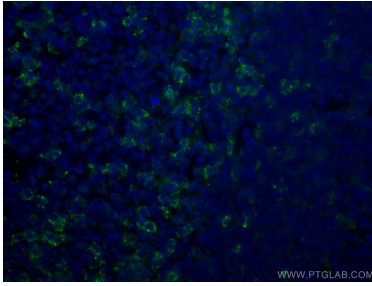
For technical support and original validation data for this product please contact:

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

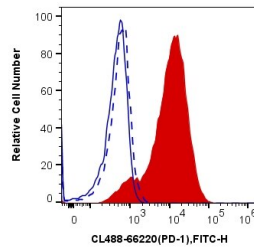
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

## Données de validation sélectionnées



Immunofluorescent analysis of (4% PFA) fixed human tonsillitis tissue using the CoraLite® Plus 488-conjugated version of this antibody, CL488-66220 (PD-1/CD279 antibody), at dilution of 1:150.



$1 \times 10^6$  Jurkat cells untreated (blue, dashed line) or treated with CD3 antibody (OKT3, 2 ug/ml) were surface stained with 0.4 ug CoraLite® Plus 488 Anti-Human PD-1/CD279 (CL488-66220, Clone: 4H4D1) (red), or 0.4 ug Mouse IgG2b Isotype Control (CL488-66360-3, Clone: K11B8C4B5) (blue, solid line). Cells were not fixed.