

**LE/AF Purified Anti-Human CD279 Monoclonal Antibody**

天津三箭生物技术股份有限公司  
Tianjin Sungene Biotech Co., Ltd.  
精准 高效 稳定 Precision Efficient Stable

Catalog Number	Vial Size
H12791-14B	50 µg
H12791-14E	500 µg
H12791-14F	1 mg

<b>Market</b>	400-621-0003 marketing@sungenebiotech.com
<b>Support</b>	022-66211636-8024 techsupport@sungenebiotech.com
<b>Web</b>	www.sungenebiotech.com

**Important Note:** Centrifuge before opening to ensure complete recovery of vial contents.  
This product is guaranteed up to one year from purchase.

**Purified Antibody Characterization**

Clone	Isotype	Reactivity
J116	Mouse IgG1	Human

**Description**

The J116 monoclonal antibody reacts with the human CD279, also known as programmed death-1 (PD-1), a 55 kDa glycoprotein belonging to the CD28 family of the Ig superfamily. PD-1 is expressed predominantly on activated T and B lymphocytes cells and thymocytes, It is induced on activated myeloid cells. PD-1 involved in lymphocyte clonal selection and peripheral tolerance through binding its ligands, B7-H1 (PD-L1) and B7-DC (PD-L2). It has been reported that PD-1 and PD-L1 interactions are critical to positive selection and play a role in shaping the T cell repertoire. Evidence reported to date suggests overlapping functions for these two PD-1 ligands and their constitutive expression on some normal tissues and upregulation on activated antigen-presenting cells. Binding of the J116 monoclonal antibody inhibits PD-1 signal transduction, however, it does not block binding of the ligand PD-L1.

**Reported Applications**

This PD-1 antibody has been reported for use in Flow Cytometric Analysis, Functional Assays, IHC, IP and Western blot.

**Product Information**

**Production Method:** Stirred tank fermentation

**Medium:** Hybridoma-SFM + 1%FCS + Gln + Gluc + P/S

**Purification Method:** Protein G

**Concentration:** 1 mg/ml

**Endotoxin:** < 2.00 EU/mg (LAL)

**Purity:** >95% (by SDS-PAGE)

**Sterile:** 0.2 µm Filtration

**Formulated:** PBS, pH7.2

**Storage:** Keep as concentrated solution. Store at 4°C as an undiluted liquid. For extended storage aliquot contents and freeze at -20°C or lower. Whenever possible avoid freeze/thaw cycles.

**References**

- [1] Taglauer ES, Trikhacheva AS, Slusser JG, Petroff MG. Expression and function of PDCD1 at the human maternal-fetal interface. Biol Reprod. 2008 Sep;79(3):562-9.
- [2] Jurado JO, Alvarez IB, Pasquinelli V, Martínez GJ, Quiroga MF, Abbate E, Musella RM, Chuluyan HE, García VE. Programmed death (PD)-1:PDligand 1/PD-ligand 2 pathway inhibits T cell effector functions during human tuberculosis. J Immunol. 2008 Jul 1;181(1):116-25.

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