

Anti-PD-1 [29F.1A12] Standard Size Ab02816-7.4

This antibody was created using our proprietary Fc Silent™ engineered Fc domain containing key point mutations that abrogate binding to Fc gamma receptors.

Isotype and Format: Rat IgG2a, [Fc Silent™](#), Kappa

Clone Number: 29F.1A12

Alternative Name(s) of Target: CD279; Programmed cell death protein 1; Protein PD-1; mPD-1

UniProt Accession Number of Target Protein: Q02242

Published Application(s): Blocking, IHC, WB, FC

Published Species Reactivity: Mouse

Immunogen: The antibody was raised by immunizing rats with plasmid DNA containing PD-1.

Specificity: This antibody recognizes an epitope on mouse PD-1.

Application Notes: This antibody was used for detection of PD-1 in CHO cells using flow cytometry. The ability of the antibody to block PD-1 interaction with PD-L1 or PD-L2 on CHO cells in an in vitro blocking assay was tested; the clone blocked PD-L1 Ig and PD-L2 Ig binding at high concentration, but only blocked 35% of PD-L1 Ig or PD-L2 Ig binding at 10 µg/ml. This antibody was also used for immunohistochemical studies of various mouse tissues, such as heart (Liang et al, 2003; pmid: 14515254). In vivo anti-tumor effect in terms of level of tumor growth reduction was studied, a significant tumor growth reduction was observed in the tumors from mice treated with the antibody (Tobias et al, 2020; pmid: 32528470). The antibody was used for the detection of PD-1 in EL4 cells using flow cytometry. The antibody was used for cross-blocking with the unconjugated version of the same clones and it was reported to prevent PD-1 from interacting with PD-L1 (Polesso et al, 2021; pmid: 33684223). The antibody was used as a positive control for CT26 tumor model, a murine model of colon cancer (Kaumaya et al.; pmid:33117602).

Antibody First Published in: Liang et al. Regulation of PD-1, PD-L1, and PD-L2 expression during normal and autoimmune response Eur. J. Immunol. 2003. 33: 2706-2716 [PMID:14515254](#)

Note on publication:

Product Form

Size: 200 µg Purified antibody.

Purification: Protein A affinity purified

Supplied In: PBS with 0.02% Proclin 300.

Storage Recommendation: Store at 4°C for up to 3 months. For longer storage, aliquot and store at -

20°C.

Concentration: 1 mg/ml.

Important note – This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.