

Anti-PD-1 [1G4] Standard Size Ab03364-13.0

This chimeric human antibody was made using the variable domain sequences of the original Mouse IgG4 format for improved compatibility with existing reagents assays and techniques.

Isotype and Format: Human IgG4, Kappa

Clone Number: 1G4

Alternative Name(s) of Target: CD279; PD1; PD 1; hPD-1; PDCD1; Programmed cell death protein 1; Programmed cell death 1; Protein PD-1; 41-1G4; 1G4-mHvKv

UniProt Accession Number of Target Protein: Q15116

Published Application(s): therapeutic, ELISA, FC

Published Species Reactivity: Human, Rhesus Monkey

Immunogen: The original antibody was generated by immunizing 6-8 weeks old female BALB/c mice with his-tagged human PD-1 protein.

Specificity: This antibody binds human PD-1 protein. PD-1 acts as an inhibitory receptor on antigen activated T-cells that plays a critical role in induction and maintenance of immune tolerance to self. It delivers inhibitory signals upon binding to ligands CD274/PDCD1L1 and CD273/PDCD1LG2.

Application Notes: The initial binding characterization of the antibody was done using ELISA. The binding reactivity of this antibody to human, mouse and rhesus monkey PD-1 expressed on CHO cells was determined using flow cytometry. This antibody was shown to cross react with human and rhesus monkey PD-1 and not mouse PD-1. The binding affinity of the original mouse IgG4 antibody for human PD-1 was determined using surface plasmon resonance and was found to be $K_d = 1.07$ nM. The anti-tumor effect of this antibody was tested in vivo in a mouse colon cancer model. Murine MC-38 cells (colon adenocarcinoma cells) were injected subcutaneously in B-hPD-1 mice and treated with this antibody. It was reported that this antibody showed good tumor inhibitory effect (CN111763257).

Antibody First Published in: [PMID:](#)

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.