

PD-1 Antibody | anti-PD-1 antibody

Anti-PD-1 [1G4]

CATALOG # AAA72424	REACTIVITY Human, Rhesus Monkey	APPLICATIONS Flow Cytometry, Functional Assay, ELISA
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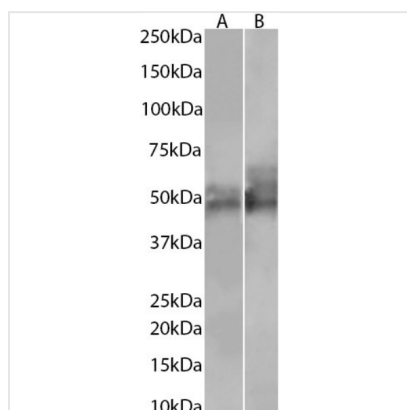
PRODUCT SYNONYMS

PD-1; Anti-PD-1 [1G4]; CD279; PD1; PD 1; hPD-1; PDCD1; Programmed cell death protein 1; Programmed cell death 1; Protein PD-1; 41-1G4; 1G4-mHvKv; anti-PD-1 antibody

PRODUCT SPECIFICATIONS

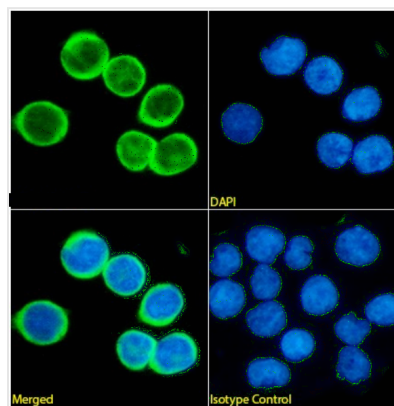
Reactivity	Human, Rhesus Monkey
Isotype	Mouse IgG1 kappa
Clone Number	1G4
Specificity	This antibody binds human PD-1 protein. PD-1 acts as an inhibitory receptor on antigen activated T-cells that plays a critical role in induction and maintenance of immune tolerance to self. It delivers inhibitory signals upon binding to ligands CD274/PDCD1L1 and CD273/PDCD1LG2.
Purity/Purification	Purified. Protein A affinity purified
Form/Format	PBS with 0.02% Proclin 300.
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-PD-1 antibody	FCM/FACS (Flow Cytometry), ELISA
Preparation and Storage	Store at 4 degree C for up to 3 months. For longer storage, aliquot and store at -20 degree C.

IMAGES



WB (Western Blot)

Western blot using anti-PD-1 antibody 1G4. Human lymph node (A) and spleen (B) tissue lysates (35ug protein in RIPA buffer) were resolved via SDS-PAGE, and the subsequent blots were probed with the chimeric rabbit version of 1G4 at 2ug/ml before detection using an anti-rabbit secondary antibody. A primary incubation of 1 hour was used, and proteins were detected by chemiluminescence.



IF (Immunofluorescence)

Immunofluorescence staining of Molt4 cells with anti-PD-1 antibody 1G4. Immunofluorescence analysis of paraformaldehyde fixed Molt4 cells on Shi-fix™ coverslips stained with the chimeric rabbit IgG version of 1G4 (1:100 dilution) for 1h followed by Alexa Fluor 488 secondary antibody (1:1000 dilution), showing membrane and cytoplasmic staining. The nuclear stain is DAPI (blue). Panels show, from left-right, top-bottom, DAPI, merged channels, and an isotype control. The isotype control was an unknown specificity antibody followed by staining with Alexa Fluor 488 secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-PD-1 antibody	The original antibody was generated by immunizing 6-8 weeks old female BALB/c mice with his-tagged human PD-1 protein. This reformatted mouse antibody was made using the variable domain sequences of the original Mouse IgG format for improved compatibility with existing reagent assays and techniques.
Product Categories/Family for anti-PD-1 antibody	cancer ; oncology ; T cells ; immunotherapy

NCBI AND UNIPROT INFORMATION

NCBI GI #	145559515
NCBI GeneID	5133
UniProt Accession #	Q15116 ; O00517 ; Q8IX89
Molecular Weight	31,647 Da
NCBI Official Full Name	Programmed cell death protein 1
NCBI Official Synonym Full Names	programmed cell death 1
NCBI Official Symbol	PDCD1
NCBI Official Synonym Symbols	PD1; PD-1; CD279; SLEB2; hPD-1; hPD-I; hSLE1
NCBI Protein Information	programmed cell death protein 1
UniProt Protein Name	Programmed cell death protein 1
UniProt Gene Name	PDCD1
UniProt Synonym Gene Names	PD1; Protein PD-1; hPD-1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/human-monkey-rhesus-monkey-antibody/pd-1/72424>