

PD-1 recombinant antibody

PD-1 Single Domain Antibody [F34C9]

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA40972	Llama	Human	Flow Cytometry, Functional Assay, ELISA

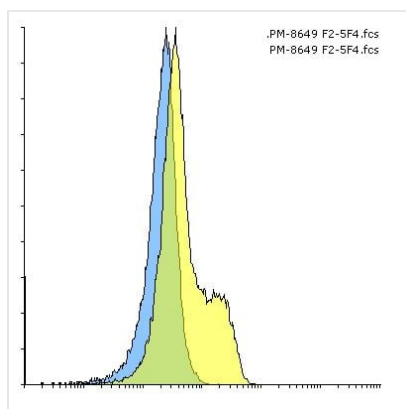
PRODUCT SYNONYMS

PD-1; Monoclonal Recombinant Antibody; PD-1 Single Domain Antibody [F34C9]; PD-1 Antibody: PD1; CD279; SLEB2; hPD-1; hPD-I; hSLE1; PD1; Programmed cell death protein 1; Protein PD-1; PDCD1; PDCD-1; programmed cell death 1; PD-1 recombinant antibody

PRODUCT SPECIFICATIONS

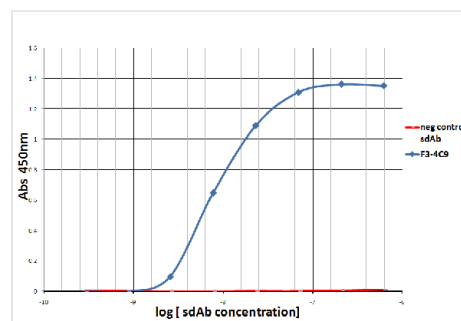
Host	Llama
Reactivity	Human
Clonality	Monoclonal
Clone Number	F3-4C9
Purity/Purification	PD-1 Antibody is affinity chromatography purified via Nickel column. Antibody is supplied as a His-tagged purified protein. It also contains a myc-tag for detection.
Form/Format	Liquid; PD-1 Antibody is supplied in PBS.
Concentration	1mg/mL (varies by lot)
Applicable Applications for PD-1 recombinant antibody	FCM/FACS (Flow Cytometry), ELISA
Immunogen	PD-1 antibody was raised against a recombinant protein corresponding to amino acids 25 - 167 of human PD-1.
Research Area	Immunology, Cancer, Cell Cycle
NCBI Organism	Homo sapiens
Preparation and Storage	PD-1 antibody should be stored in working aliquots at -20 degree C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.

IMAGES



FCM/FACS (Flow Cytometry)

Flow cytometry analysis of PD-1 transfected 293 cells using PD-1 [F3-4C9] antibody at 10ug/ml. Blue: untransfected cells, Yellow: PD-1 transfected cells.



ELISA

Titration ELISA of PD-1.

ADDITIONAL INFORMATION

Related Product Information for PD-1 recombinant antibody	PD-1 Antibody: Cell-mediated immune responses are initiated by T lymphocytes that are themselves stimulated by cognate peptides bound to MHC molecules on antigen-presenting cells (APC). T-cell activation is generally self-limited as activated T cells express receptors such as PD-1 (also known as PDCD-1) that mediate inhibitory signals from the APC. PD-1 can bind two different but related ligands, PDL-1 and PDL-2. Upon binding to either of these ligands, signals generated by PD-1 inhibit the activation of the immune response in the absence of "danger signals" such as LPS or other molecules associated with bacteria or other pathogens. Evidence for this is seen in PD1-null mice who exhibit hyperactivated immune systems and autoimmune diseases.
Product Categories/Family for PD-1 recombinant antibody	Primary Antibodies
References	Holling TM, Schooten E, and van Den Elsing PJ. Function and regulation of MHC class II molecules in T-lymphocytes: of mice and men. Hum. Immunol. 2004; 65:282-90. Ishida Y, Agata Y, Shibahara K, et al. Induced expression of PD-1, a novel member of the immunoglobulin gene superfamily, upon programmed cell death. EMBO J. 1992; 11:3887-95. Zhong X, Bai C, Gao W, et al. Suppression of expression and function of negative immune regulator PD-1 by certain pattern recognition and cytokine receptor signals associated with immune system danger. Int. Immunol. 2004; 16:1181-8. Nishimura H, Nose M, Hiai H, et al. Development of lupus-like autoimmune diseases by the disruption of the PD-1 gene encoding an ITIM motif-carrying immunoreceptor. Immunity 1999; 11:141-51.

NCBI AND UNIPROT INFORMATION

NCBI GI #	145559515
NCBI GeneID	5133
UniProt Accession #	Q15116 ; O00517 ; Q8IX89
Molecular Weight	Predicted: 32 kDa Observed: 38 kDa
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/monoclonal/pd-1-recombinant-antibody-clone-f3-4c9-flow-cytometry-elisa/40972>