

anti-Mouse PD1 Monoclonal Antibody | anti-PD1 antibody

PD1 antibody

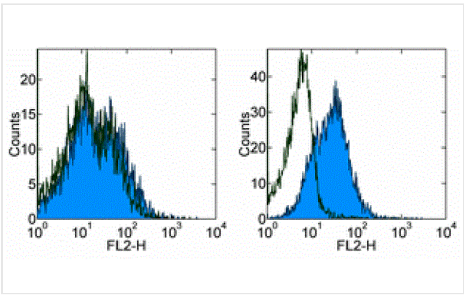
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA107155	Armenian Hamster	Mouse	Immunoprecipitation, Immunohistochemistry, Flow Cytometry, Functional Assay

PRODUCT SYNONYMS

PD1; Monoclonal Antibody; PD1 antibody; Monoclonal PD1; Anti-PD1; PD 1; PD-1; anti-PD1 antibody

PRODUCT SPECIFICATIONS

Host	Armenian Hamster
Reactivity	Mouse
Clonality	Monoclonal
Isotype	IgG
Clone Number	J43
Specificity	Mouse
Purity/Purification	PD1 antibody was purified by affinity chromatography.
Form/Format	Liquid in PBS, PH 7.2, with 0.09% sodium azide
Concentration	0.5 mg/ml (varies by lot)
Sequence Length	288
Applicable Applications for anti-PD1 antibody	IP (Immunoprecipitation), IHC (Immunohistochemistry), FCM/FACS (Flow Cytometry)
Biological Significance	The J43 monoclonal antibody reacts with mouse PD-1, a 55 kDa member of the Ig superfamily. PD-1 contains the immunoreceptor tyrosine-based inhibitory motif and plays a key role in peripheral tolerance and autoimmune disease in mice. PD-1 is expressed mainly on activated T and B lymphocytes. Two novel B7 Family members have been identified as PD-1 ligands, PD-L1 and PD-L2. Evidence reported to date suggests overlapping functions for these ligands and their constitutive expression on some normal tissues and upregulation on activated antigen-presenting cells. It is reported that J43 inhibits the binding of mouse PD-L1-Ig and mouse PD-L2-Ig to PD-1/BHK transfected cells. When administrated in vivo, both intact and Fab of J43 are reported to enhance contact hypersensitivity and exacerbate acute GVHD similar to transfer of PD-1-deficient cells. Injection of J43 also exacerbates EAE and NOD diabetes as do specific antibodies to mouse PD-L1 and PD-L2.
Preparation and Storage	Store at 4°C



FCM/FACS (Flow Cytometry)
Staining of 3-day unstimulated (left) and 3-day ConA activated (right) BALB/c splenocytes with 0.25 ug of Hamster IgG Isotype Control (open histogram) or 0.25 ug of Anti-Mouse PD-1 Purified (filled histogram) followed by Anti-Armenian Hamster IgG (biotin) and Streptavidin (PE). Total viable cells were used for analysis.

ADDITIONAL INFORMATION

Related Product Information for anti-PD1 antibody	Armenian Hamster monoclonal PD1 antibody
Product Categories/Family for anti-PD1 antibody	Cell Cycle & Cell Death

NCBI AND UNIPROT INFORMATION

NCBI GI #	167857792
NCBI GeneID	5133
NCBI Accession #	NP_005009.2
NCBI GenBank Nucleotide #	NM_005018.2
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
UniProt Entry Name	PDCD1_HUMAN

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.