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Product datasheet for TA319693

PD1 (PDCD1) Mouse Monoclonal Antibody [Clone ID: 12A7D7]

Product data:

Product Type:	Primary Antibodies
Clone Name:	12A7D7
Applications:	ELISA, IHC, WB
Recommended Dilution:	PD-1 antibody can be used for detection of PD-1 by Western blot at 1 µg/mL. Antibody can also be used for immunohistochemistry starting at 2.5 µg/mL. Antibody validated: Western Blot in mouse samples and Immunohistochemistry in mouse samples. All other applications and species not yet tested.
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	A ~150 amino acid recombinant protein from near the terminus terminus of mouse PD-1.
Formulation:	PD-1 Monoclonal Antibody is supplied in PBS containing 0.02% sodium azide.
Concentration:	1ug/ul
Purification:	PD-1 Monoclonal Antibody is Protein A purified.
Conjugation:	Unconjugated
Storage:	Antibody can be stored at 4°C up to one year. Antibodies should not be exposed to prolonged high temperatures.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	programmed cell death 1
Database Link:	NP_005009 Entrez Gene 18566 MouseEntrez Gene 301626 RatEntrez Gene 5133 Human Q15116

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Background: PD-1 Monoclonal Antibody: Cell-mediated immune responses are initiated by T lymphocytes that are themselves stimulated by cognate peptides bound to MHC molecules on antig en-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. Despite its predicted molecular weight, PD-1 often migrates at higher molecular weight in SDS-PAGE.

Synonyms: CD279; hPD-1; hPD-l; hSLE1; PD-1; PD1; SLEB2

Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Cell adhesion molecules (CAMs), T cell receptor signaling pathway