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Product datasheet for TA355050

PD1 (PDCD1) Mouse Monoclonal Antibody [Clone ID: 8A4]

Product data:

Product Type:	Primary Antibodies
Clone Name:	8A4
Applications:	ELISA, IF, IHC, WB
Recommended Dilution:	WB: 0.5-1µg/mL. IHC starting at 5µg/mL.IF start at 20µg/mL.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	PD-1 antibody was raised against the extracellular domain of human PD-1.
Formulation:	PD-1 Antibody is supplied in PBS containing 0.02% sodium azide.
Concentration:	1 mg/ml
Purification:	PD-1 Antibody is supplied as protein A purified IgG1.
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	Predicted: 32 kDa; Observed: 38 kDa
Gene Name:	programmed cell death 1
Database Link:	NP_005009 Entrez Gene 5133 Human Q15116

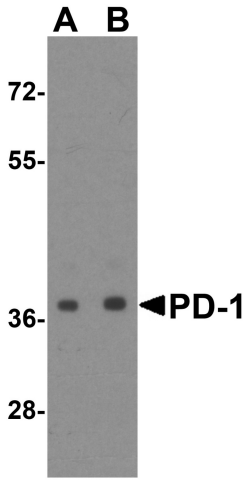
View online »

Background: 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 PD-1-null mice who exhibit hyperactivated immune systems and autoimmune diseases. PD-1 is thus one of a growing number of immune checkpoint proteins.

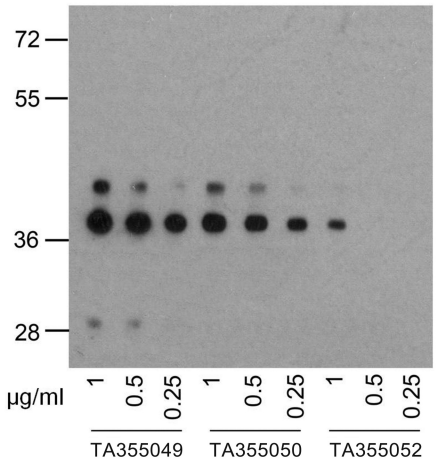
Synonyms: CD279; hPD-1; hPD-l; PD1; SLEB2

Note: PD-1 antibody can be used for detection of PD-1 by Western blot at 0.5 - 1 µg/mL. Antibody can also be used for immunohistochemistry starting at 5 µg/mL. For immunofluorescence start at 20 µg/mL.

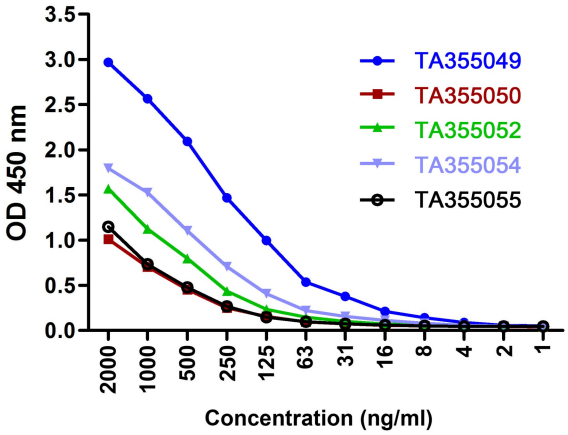
Product images:



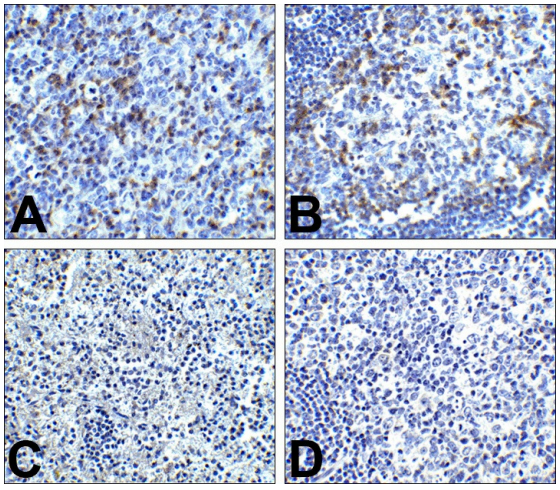
Western blot analysis of PD-1 in transfected 293 cell lysate with PD-1 antibody at (A) 0.5 and (B) 1ug/mL.



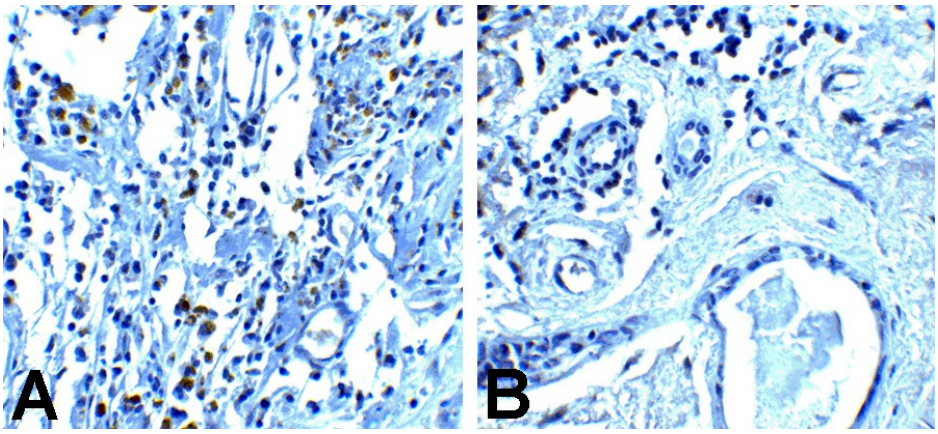
Western blot analysis of PD-1 in overexpressing 293 cells using [TA355049], TA355050, and [TA355052] antibody at 1, 0.5, and 0.25 ug/ml, respectively.



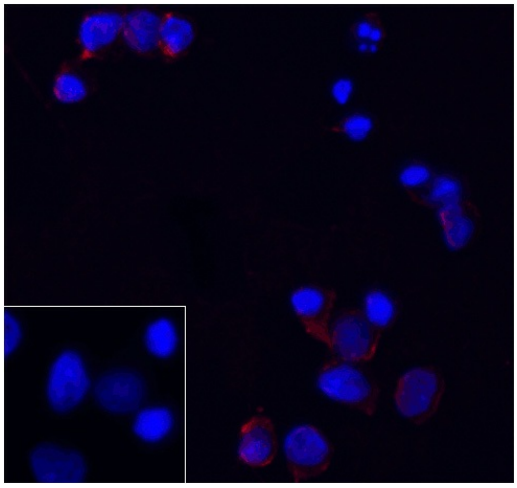
Titration curve analysis of PD-1 mAbs to detect recombinant PD-1 in ELISA with [TA355049], TA355050, [TA355052], [TA355054], and [TA355055] abs at decreasing concentrations.



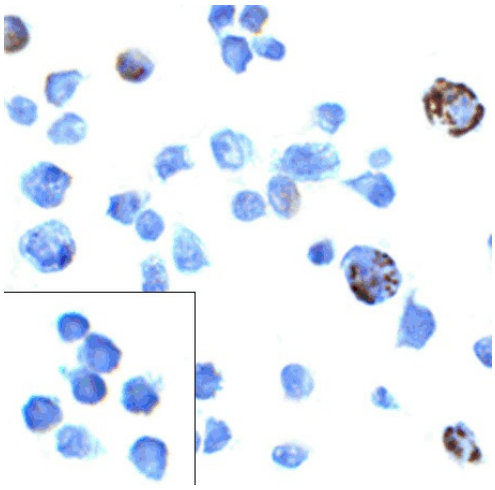
Immunohistochemistry of PD-1 in (A) human tonsil tissue, (B) human lymph node tissue, and (C) human spleen tissue with PD-1 antibody at 5ug/mL. (D) Immunohistochemistry in human tonsil tissue with control mouse IgG staining at 5ug/mL.



Immunohistochemistry of PD-1 in (A) human breast cancer tissue and (B) human normal breast tissue with PD-1 antibody at 5ug/mL.



Immunofluorescence of PD-1 in transfected 293 cells with PD-1 antibody at 5ug/mL. Lower left: Immunofluorescence in transfected 293 cells with control mouse IgG antibody at 5ug/mL.



Immunocytochemistry of PD-1 in transfected 293 cells with PD-1 antibody at 5ug/mL. Lower left: Immunocytochemistry in transfected 293 cells with control mouse IgG antibody at 5ug/mL.