

Anti-PD-1 Pdc1 Monoclonal Antibody [7A11B1]

Catalog Number: M00178-3

About PDCD1

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. Despite its predicted molecular weight, PD-1 often migrates at higher molecular weight in SDS-PAGE.

Overview

Product Name	Anti-PD-1 Pdc1 Monoclonal Antibody [7A11B1]
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-PD-1 Pdc1 Monoclonal Antibody [7A11B1] (Catalog # M00178-3). Tested in ELISA, WB, IHC-P, IF applications. This antibody reacts with Human, Mouse, Rat.
Application	ELISA, IF, IHC-P, WB
Clonality	Monoclonal Clone: 7A11B1
Formulation	PD-1 Monoclonal Antibody is supplied in PBS containing 0.02% sodium azide.
Storage Instructions	PD-1 monoclonal antibody can be stored at -20°C, stable for one year.
Host	Mouse
Uniprot ID	Q02242

Technical Details

Immunogen	A ~150 amino acid recombinant protein from near the amino terminus of mouse PD-1.
Predicted Reactive Species	Mouse, Rat
Cross Reactivity	PD-L1 Antibody has no cross-reactivity to PD-L2.
Isotype	IgG1
Form	Liquid
Concentration	1 mg/mL
Purification	PD-1 Monoclonal Antibody is Protein A purified.

Suggested Dilutions

Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.

If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.

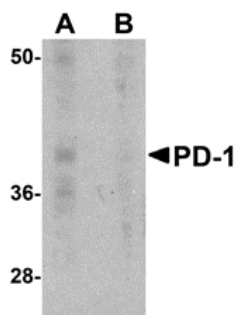
Some PubMed article(s) citing the expression level of this target are as follows:

Boster Bio's internal QC testing used:

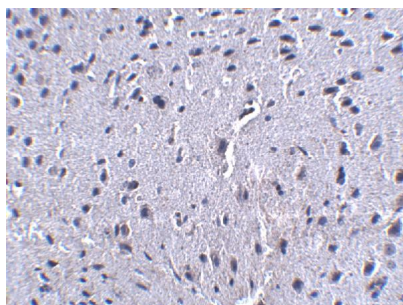
PD-1 antibody can be used for detection of PD-1 by Western blot at 1 ug/mL. Antibody can also be used for immunohistochemistry starting at 2.5 ug/mL. For immunofluorescence start at 20 ug/mL.

Antibody validated: Western Blot in mouse samples; Immunohistochemistry in human and mouse samples and Immunofluorescence in human and mouse samples. All other applications and species not yet tested. Optimal dilutions for each application should be determined by the researcher.

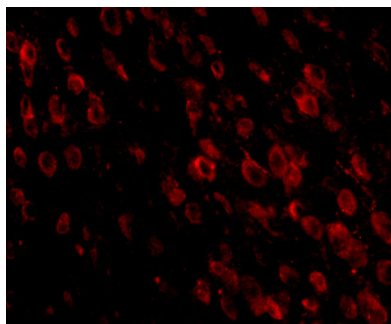
Anti-PD-1 Pcd1 Monoclonal Antibody [7A11B1] (M00178-3) Images



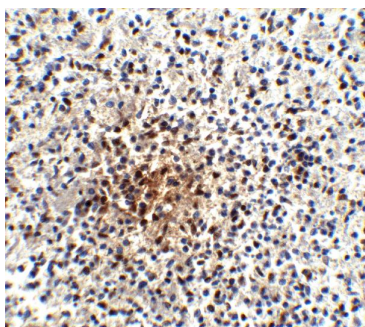
Western blot analysis of PD-1 in A-20 cell lysate with PD-1 antibody at 1 ug/mL in the (A) absence and (B) presence of blocking recombinant protein.



Immunohistochemistry of PD-1 in mouse brain tissue with PD-1 antibody at 2.5 ug/mL.



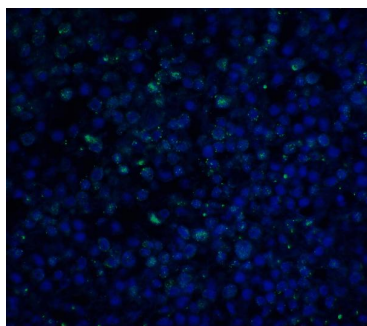
Immunofluorescence of PD-1 in mouse brain tissue with PD-1 antibody at 20 ug/mL.



Immunohistochemistry of PD-1 in human spleen tissue with PD-1 antibody at 25 ug/mL.

Immunofluorescence of PD-1 in human spleen tissue with PD-1 antibody at 20 ug/mL.

Green: PD-1 Antibody [7A11B1]
Blue: DAPI staining



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