Datasheet for ABIN6940268

anti-PD-1 antibody

3 Images

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Overview

Quantity:	100 µg
Target:	PD-1 (PDCD1)
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This PD-1 antibody is un-conjugated
Application:	Immunohistochemistry (IHC), ELISA, Staining Methods (StM), Coating (Coat)

Product Details

Immunogen:	Recombinant full-length human PDCD1 protein
Clone:	PDCD1-2720
Isotype:	IgG1 kappa
Purification:	Purified by Protein A/G

Target Details

Target:	PD-1 (PDCD1)
Alternative Name:	PDCD1 (PDCD1 Products)
Background:	PDCD-1 (programmed cell death-1 protein), also designated CD279, is a type I transmembrane receptor and a member of the immunoglobin gene superfamily. It is expressed on activated T-cells, B-cells, and myeloid cells. Anti-PDCD-1 is a marker of angioimmunoblastic lymphoma and suggests a unique cell of origin for this neoplasm. Unlike CD10 and BCL6, PDCD-1 is expressed

Target Details

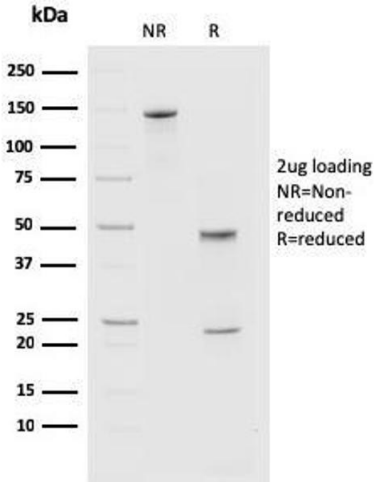
	by few B-cells, so anti-PDCD-1 may be a more specific and useful diagnostic marker in angioimmunoblastic lymphoma. In addition, PDCD-1 expression provides evidence that angioimmunoblastic lymphoma is a neoplasm derived from germinal center-associated T-cells.
Molecular Weight:	55kDa
Gene ID:	5133
UniProt:	Q15116
Pathways:	Cancer Immune Checkpoints

Application Details

Application Notes:	Positive Control: TY cells. Tonsil. Known Application: ELISA (For coating, order antibody without BSA),Immunohistochemistry (Formalin-fixed) (1-2 µg/mL for 30 minutes at RT),(Staining of formalin-fixed tissues requires boiling tissue sections in 10 mM Tris with 1 mM EDTA, pH 9.0, for 10-20 min followed by cooling at RT for 20 minutes),Optimal dilution for a specific application should be determined.
Restrictions:	For Research Use only

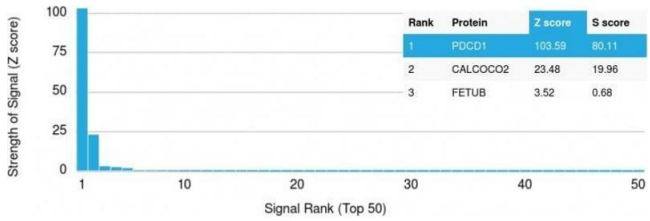
Handling

Concentration:	200 µg/mL
Buffer:	10 mM PBS with 0.05 % BSA & 0.05 % azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-80 °C
Storage Comment:	Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.
Expiry Date:	24 months



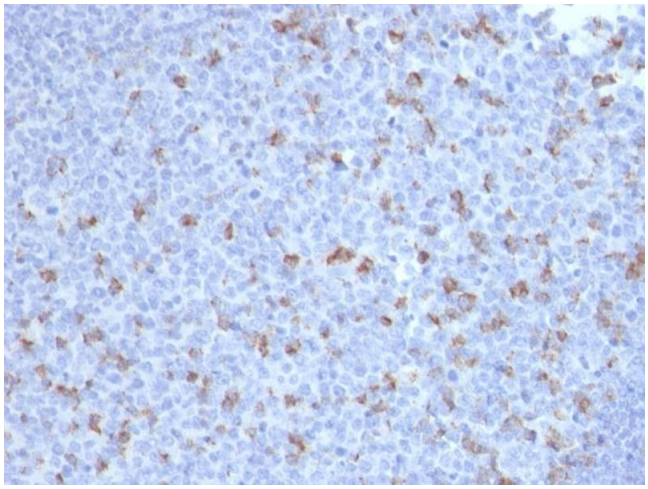
SDS-PAGE

Image 1. SDS-PAGE Analysis of Purified PD1 (CD279) Mouse Monoclonal Antibody (PDCD1/2720). Confirmation of Purity and Integrity of Antibody.



Protein Array

Image 2. Analysis of Protein Array containing more than 19,000 full-length human proteins using PD1 Mouse Monoclonal Antibody (PDCD1/2720) Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (Monoclonal Antibody) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProtTM array. Z-scores are described in units of standard deviations (SDs) above the mean value of all signals generated on that array. If targets on HuProtTM are arranged in descending order of the Z-score, the S-score is the difference (also in units of SDs) between the Z-score. S-score therefore represents the relative target specificity of a Monoclonal Antibody to its intended target. A Monoclonal Antibody is considered to specific to its intended target, if the Monoclonal Antibody has an S-score of at least 2.5. For example, if a Monoclonal Antibody binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that Monoclonal Antibody to protein X is equal to 29.



Immunohistochemistry

Image 3. Formalin-fixed, paraffin-embedded human Tonsil stained with PD1 (CD279) Mouse Monoclonal Antibody (PDCD1/2720).

