

Datasheet for ABIN735608
anti-PD-1 antibody (AA 201-288)[Go to Product page](#)**1** Validation**3** Images**2** Publications

Overview

Quantity:	100 µL
Target:	PD-1 (PDCD1)
Binding Specificity:	AA 201-288
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PD-1 antibody is un-conjugated
Application:	Flow Cytometry (FACS), Western Blotting (WB), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunohistochemistry (Frozen Sections) (IHC (fro)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunofluorescence (Cultured Cells) (IF (cc))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human PD-1
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Predicted Reactivity:	Cow,Horse,Rabbit
Purification:	Purified by Protein A.

Target Details

Target:	PD-1 (PDCD1)
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Target Details

Alternative Name:	PD-1/CD279 (PDCD1 Products)
Background:	<p>Synonyms: PD1, PD-1, CD279, SLEB2, hPD-1, hPD-I, hSLE1, Programmed cell death protein 1, Protein PD-1, PDCD1</p> <p>Background: Inhibitory cell surface receptor involved in the regulation of T-cell function during immunity and tolerance. Upon ligand binding, inhibits T-cell effector functions in an antigen-specific manner. Possible cell death inducer, in association with other factors.</p>
Gene ID:	5133
UniProt:	Q15116
Pathways:	Cancer Immune Checkpoints

Application Details

Application Notes:	<p>WB 1:300-5000</p> <p>ELISA 1:500-1000</p> <p>FCM 1:20-100</p> <p>IHC-P 1:200-400</p> <p>IHC-F 1:100-500</p> <p>IF(IHC-P) 1:50-200</p> <p>IF(IHC-F) 1:50-200</p> <p>IF(ICC) 1:50-200</p>
Restrictions:	For Research Use only

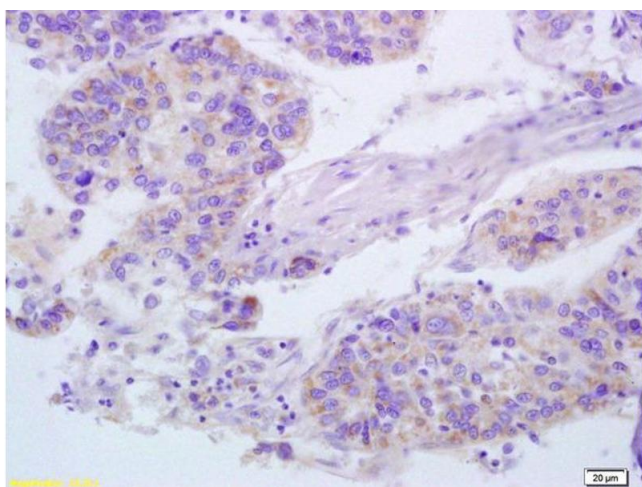
Handling

Format:	Liquid
Concentration:	1 µg/µL
Buffer:	0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months

Product cited in: Zhang, Niyazi, Hong, Tuluwengjiang, Zhang, Zhang, Su, Bao: "Effect of EBI3 on radiation-induced immunosuppression of cervical cancer HeLa cells by regulating Treg cells through PD-1/PD-L1 pathway." in: **Tumour biology**, Vol. 39, Issue 3, pp. 1010428317692240, (2017) ([PubMed](#)).

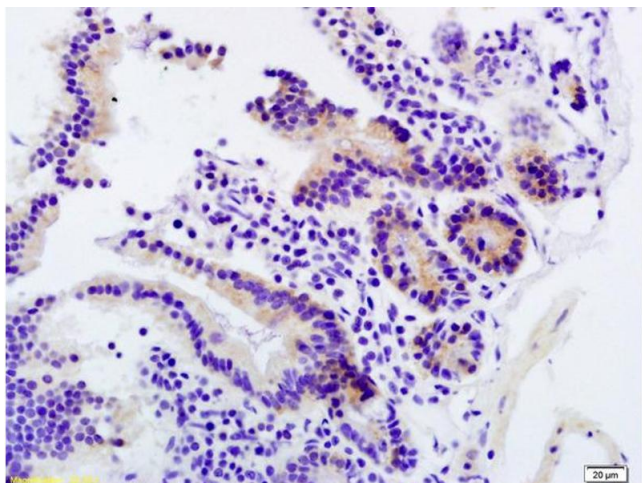
Szabó, Gáspár, Dajnoki, Papp, Fábos, Szegedi, Zeher: "Expansion of circulating follicular T helper cells associates with disease severity in childhood atopic dermatitis." in: **Immunology letters**, Vol. 189, pp. 101-108, (2017) ([PubMed](#)).

Validation report #104535 for Immunohistochemistry (IHC)



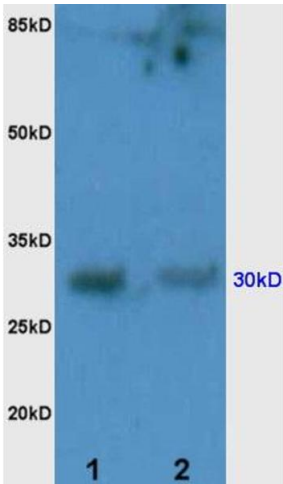
Immunohistochemistry

Image 1. Formalin-fixed and paraffin embedded human lung carcinoma labeled with Anti-D-1/CD279 Polyclonal Antibody, Unconjugated (ABIN735608) at 1:200 followed by conjugation to the secondary antibody and DAB staining.



Immunohistochemistry

Image 2. Formalin-fixed and paraffin embedded mouse colon labeled with Anti-PD-1/CD279 Polyclonal Antibody, Unconjugated (ABIN735608) at 1:200 followed by conjugation to the secondary antibody and DAB staining.



SDS-PAGE

Image 3. L1 human kidney lysates L2 rat brain lysates probed with Anti PD-1/CD279 Polyclonal Antibody, Unconjugated (ABIN735608) at 1:200 overnight at 4 °C. Followed by conjugation to secondary antibody at 1:3000 for 90 min at 37 °C. Predicted band 30kD. Observed band size:30kD.



Successfully validated (Immunohistochemistry (IHC))

by [TRON](#)

Report Number: 104535

Date: Nov 29 2023

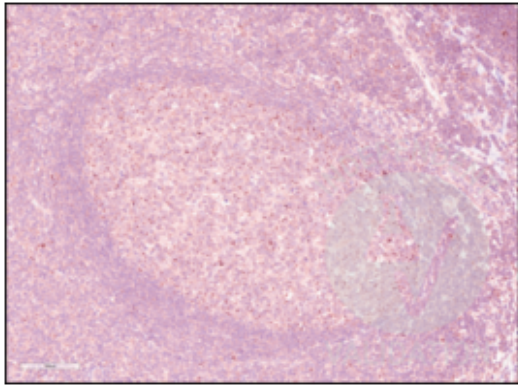
Target:	PD-1
Lot Number:	BC04411027
Method validated:	Immunohistochemistry (IHC)
Positive Control:	FFPE human tonsil
Notes:	Passed. The PD-1 antibody (AA 201-288) ABIN735608 specifically stains cells within the germinal zone in human tonsil.
Primary Antibody:	ABIN735608
Secondary Antibody:	HRP-conjugated goat anti-rabbit antibody (medac diagnostics, DPVR-110HRP, Lot 101122)
Protocol:	<ul style="list-style-type: none">• Dewax and rehydrate tissue sections on glass slides in a descending xylene and graded alcohol series:<ul style="list-style-type: none">◦ xylene 2x for 5 min.◦ 100 % (v/v) ethanol 2x for 5 min.◦ 96 % (v/v) ethanol 2x for 5 min.◦ 70 % (v/v) ethanol 2x for 5 min.• Wash slides 2x 5 min with ddH₂O.• Cook slides for 30 min at 95 °C in citrate buffer pH 6.• Wash slides 2x 3 min with ddH₂O.• Incubate slides in 0.3 % (v/v) H₂O₂ in PBS for 15 min to quench endogenous peroxidase.• Wash slides 3x 3 min in 1X PBS.• Block slides in 10 % goat serum in PBS for 30 min at RT.• Incubate slides with primary rabbit anti-PD-1 antibody (antibodies-online, ABIN735608, lot BC04411027) diluted 1:250 and 1:500 in 10 % goat serum in PBS ON at 4 °C in a humidified chamber.• Wash slides 3x 3 min in 1X PBS.• Incubate slides with secondary HRP-conjugated goat anti-rabbit antibody (medac diagnostics, DPVR-110HRP, Lot 101122) ready-to-use in 10 % goat serum in PBS for 30 min at RT in a humidified chamber.• Wash slides 3x 3 min in 1X PBS.• HRP development.• Counterstain slides with hematoxylin solution (Carl Roth, T865.2).

- Wash slides for 15 min under running tap water.
- Dehydrate sections in an ascending alcohol-xylene series:
 - 70% ethanol 2x for 10 sec.
 - 96% ethanol 2x for 10 sec.
 - 100% ethanol 2x for 10 sec.
 - xylene 2x for 10 sec.
- Mount sections with Entellan new mounting medium (Sigma-Aldrich, 1008690500).
- Dry sections.
- Image acquisition on an Aperio CS2 Digital Pathology Slide Scanner (Leica), Magnification 40x.

Experimental Notes:

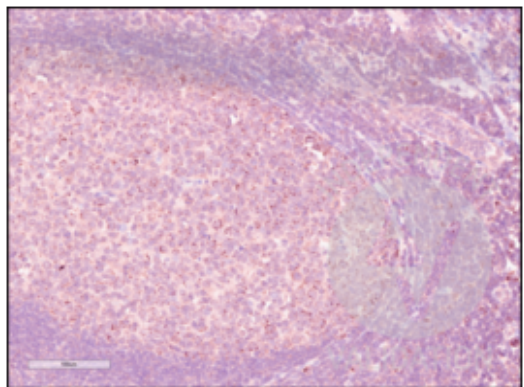
- Staining with ABIN735608 the signal at 1:250 and 1:500 antibody dilution in human tonsil was sharp and localized in the cells within the germinal zone (as expected).
- ABIN735608 reactivity was also tested in mouse samples. However, in mouse spleen, the signal was almost absent and very weak at Ab dilution 1:250 and 1:500. No signal was detected in mouse pancreas. Even increasing the Ab concentration to 1:150 dilution, in mouse tumor tissue, ABIN735608 detected a very weak, unclear, and sporadic signal. The quality of the signal does not allow the possibility of background staining to be excluded.

Images for Validation report #104535



Validation image no. 1 for anti-Programmed Cell Death 1 (PDCD1) (AA 201-288) antibody (ABIN735608)

IHC staining of human tonsil with anti-PD-1 antibody
ABIN735608 (1:250) and counterstain with hematoxylin.



Validation image no. 2 for anti-Programmed Cell Death 1 (PDCD1) (AA 201-288) antibody (ABIN735608)

IHC staining of human tonsil with anti-PD-1 antibody
ABIN735608 (1:500) and counterstain with hematoxylin.