

## Product Datasheet

### PDCD1 Antibody / PD-1 / PD1 (orb607149)

<b>Catalog Number</b>	orb607149
<b>Category</b>	Antibodies
<b>Description</b>	<p>PDCD-1 (programmed cell death-1 protein), also designated CD279, is a type I transmembrane receptor and a member of the immunoglobulin 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 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.</p>
<b>Clonality</b>	Monoclonal
<b>Species/Host</b>	Mouse
<b>Isotype</b>	Mouse IgG1
<b>Conjugation</b>	Unconjugated
<b>Reactivity</b>	Human
<b>Purification</b>	Protein G affinity chromatography
<b>Immunogen</b>	Human full-length recombinant PDCD1 protein was used as the immunogen for the PDCD1 antibody.
<b>UniProt ID</b>	<b>Q15116</b>
<b>Tested applications</b>	ELISA, IHC-P
<b>Dilution range</b>	ELISA (order BSA/sodium azide-free format for coating), Immunohistochemistry (FFPE): 1-2ug/ml for 30 min at RT

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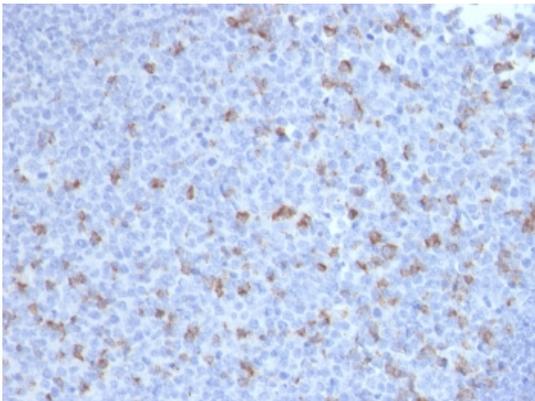
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<b>Application notes</b>	Optimal dilution of the PDCD1 antibody should be determined by the researcher.1. The prediluted format is supplied in a dropper bottle and is optimized for use in IHC. After epitope retrieval step (if required), drip mAb solution onto the tissue section and incubate at RT for 30 min.
<b>Antibody Type</b>	Primary Antibody
<b>Clone Number</b>	PDCD1/2720
<b>Formula</b>	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide
<b>Storage</b>	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
<b>Note</b>	For research use only



IHC staining of FFPE human tonsil with PDCD1 antibody (clone PDCD1/2720). HIER: boil tissue sections in pH9 10mM Tris with 1mM EDTA for 10-20 min and allow to cool before testing.

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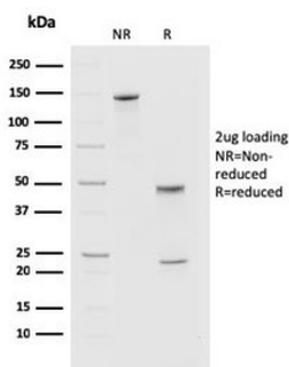
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### Human Protein Microarray Specificity Validation



Analysis of HuProt (TM) microarray containing more than 19000 full-length human proteins using PDCD1 antibody (clone PDCD1/2720). These results demonstrate the foremost specificity of the PDCD1/2720 mAb. Z- and S- score: The Z-score represents the strength of a signal that an antibody (in combination with a fluorescently-tagged anti-IgG secondary Ab) produces when binding to a particular protein on the HuProt (TM) array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If the targets on the HuProt (TM) are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-scores. The S-score therefore represents the relative target specificity of an Ab to its intended target.



SDS-PAGE analysis of purified, BSA-free PDCD1 antibody (clone PDCD1/2720) as confirmation of integrity and purity.

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