

Anti-PD1 PDCD1 Rabbit Monoclonal Antibody

Catalog # ABO13235

Product Information

Application	IHC
Primary Accession	Q15116
Host	Rabbit
Isotype	Rabbit IgG
Reactivity	Human
Clonality	Monoclonal
Format	Liquid
Description	Anti-PD1 PDCD1 Rabbit Monoclonal Antibody . Tested in IHC application. This antibody reacts with Human.

Additional Information

Gene ID	5133
Other Names	Programmed cell death protein 1, Protein PD-1, hPD-1, CD279, PDCD1 {ECO:0000303 PubMed:7851902, ECO:0000312 HGNC:HGNC:8760}
Calculated MW	31647
Application Details	IHC 1:50-1:200
Subcellular Localization	Membrane; Single-pass type I membrane protein.
Source	Eukaryota
Contents	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.
Clone Names	Clone: BEG-16
Immunogen	A synthesized peptide derived from human PD1
Purification	Affinity-chromatography
Storage	Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.

Protein Information

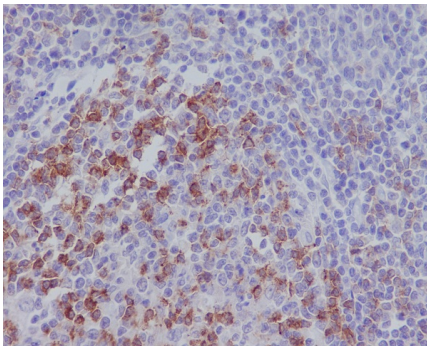
Name	PDCD1 {ECO:0000303 PubMed:7851902, ECO:0000312 HGNC:HGNC:8760}
Function	Inhibitory receptor on antigen activated T-cells that plays a critical role in induction and maintenance of immune tolerance to self (PubMed: 21276005 , PubMed: 31754127 , PubMed: 32184441 , PubMed: 37208329). Delivers

inhibitory signals upon binding to ligands CD274/PDCD1L1 and CD273/PDCD1LG2 (PubMed:[21276005](#), PubMed:[26602187](#)). Following T-cell receptor (TCR) engagement, PDCD1 associates with TCR-CD3 in the immunological synapse and directly inhibits T-cell activation (PubMed:[32184441](#)). Suppresses T-cell activation through the recruitment of PTPN11/SHP-2: following ligand-binding, PDCD1 is phosphorylated within the ITSM motif, leading to the recruitment of the protein tyrosine phosphatase PTPN11/SHP-2 that mediates dephosphorylation of key TCR proximal signaling molecules, such as ZAP70, PRKCQ/PKCtheta and CD247/CD3zeta (PubMed:[32184441](#)).

Cellular Location

Cell membrane; Single-pass type I membrane protein

Images



Immunohistochemical analysis of paraffin-embedded human tonsil, using PD1 Antibody.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.