PDCD6 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	PDCD6, Polyclonal Antibody
Full Product Name	PDCD6, NT (PDCD6, ALG2, Programmed cell death protein 6, Apoptosis-linked gene 2 protein, Probable calcium-binding protein ALG-2) (MaxLight 650)
Product Gene Name	anti-PDCD6 antibody
Product Synonym Names	PDCD6; ALG2; Programmed cell death protein 6; Apoptosis-linked gene 2 protein; Probable calcium-binding protein ALG-2
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight650.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight650 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	7,349 Da
OMIM	601057
3D Structure	ModBase 3D Structure for O75340
Immunogen	PDCD6 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 19-47 amino acids from the N-terminal region of human PDCD6.
Conjugate	MaxLight650
Note	Preservative Free
Product Categories/Family for anti-PDCD6 antibody	Antibodies; Apoptosis
Applications Tested/Suitable for anti-PDCD6 antibody	Western Blot (WB), FLISA
Application Notes for anti-PDCD6 antibody	WB: 1:100-500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-PDCD6 antibody	This gene encodes a calcium-binding protein belonging to the penta-EF-hand protein family. Calcium binding is important for homodimerization and for conformational changes required for binding to other protein partners. This gene product participates in T cell receptor-, Fas-, and glucocorticoid-induced programmed cell death. In mice deficient for this gene product, however, apoptosis was not blocked suggesting this gene product is functionally redundant.
Product References and Citations for anti-PDCD6 antibody	Vergarajauregui, S., et al. J. Biol. Chem. 284(52):36357-36366(2009). Okumura, M., et al. Biochem. Biophys. Res. Commun. 386(1):237-241(2009). Suzuki, H., et al. Acta Crystallogr. Sect. F Struct. Biol. Cryst. Commun. 64 (PT 11), 974-977 (2008): Yamada, Y., et al. Cancer Sci. 99(11):2193-2199(2008). Suzuki, H., et al. Structure 16(10):1562-1573(2008).

Other Notes	Small volumes of anti-PDCD6 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for PDCD6 purchase	MBS6332031 is an antibody targeting PDCD6. Also known as PDCD6, NT (PDCD6, ALG2, Programmed cell death protein 6, Apoptosis-linked gene 2 protein, Probable calcium-binding protein ALG-2) (MaxLight 650). Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PDCD6. It may not necessarily be applicable to this product.

NCBI GI #	7019485
NCBI GeneID	10016
NCBI Accession #	NP_037364.1
UniProt Primary Accession #	O75340
UniProt Secondary Accession #	Q2YDC2; Q5TZS0; B2RD16; E7ESR3
UniProt Related Accession #	O75340
GenBank Nucleotide #	NM_013232.3
NCBI Official Full Name	programmed cell death protein 6 isoform 1
NCBI Official Synonym Full Names	programmed cell death 6
NCBI Official Symbol	PDCD6
NCBI Official Synonym Symbols	ALG2; ALG-2; PEF1B
UniProt Protein Name	Programmed cell death protein 6
UniProt Synonym Protein Names	Apoptosis-linked gene 2 protein; Probable calcium-binding protein ALG-2
Protein Family	Programmed cell death protein
UniProt Gene Name	PDCD6
UniProt Synonym Gene Names	ALG2
UniProt Entry Name	PDCD6_HUMAN
NCBI Protein Information	programmed cell death protein 6; apoptosis-linked gene 2 protein; probable calcium-binding protein ALG-2
NCBI Summary for PDCD6	This gene encodes a calcium-binding protein belonging to the penta-EF-hand protein family. Calcium binding is important for homodimerization and for conformational changes required for binding to other protein partners. This gene product participates in T cell receptor-, Fas-, and glucocorticoid-induced programmed cell death. In mice deficient for this gene product, however, apoptosis was not blocked suggesting this gene product is functionally redundant. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene, and a pseudogene of this gene is also located on the short arm of chromosome 5. [provided by RefSeq, May 2012]

UniProt Comments for PDCD6	PDCD6: Calcium-binding protein required for T-cell receptor-, Fas-, and glucocorticoid-induced cell death. May mediate Ca(2+)- regulated signals along the death pathway. Calcium-dependent adapter necessary for the association between PDCD6IP and TSG101. Interaction with DAPK1 can accelerate apoptotic cell death by increasing caspase-3 activity. Chromosomal Location of Human Ortholog: 5p15.33 Cellular Component: endoplasmic reticulum membrane; nuclear membrane; endoplasmic reticulum; cytoplasm; cytoplasmic vesicle; nucleus; endosome Molecular Function: protein dimerization activity; protein binding; protein homodimerization activity; protein anchor; calcium-dependent cysteine-type endopeptidase activity; calcium ion binding; calcium-dependent protein binding; molecular adaptor activity Biological Process: caspase activation; intracellular protein transport; negative regulation of TOR signaling pathway; positive regulation of angiogenesis; negative regulation of protein kinase B signaling cascade; negative regulation of vascular endothelial growth factor receptor signaling pathway; positive regulation of caspase activity; positive regulation of endothelial cell proliferation; angiogenesis; response to calcium ion; proteolysis
Research Articles on PDCD6	**1.** PDCD6 may represent a biomarker candidate gene that could help to identify a group of patients at high risk for recurrence and death.
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