PDCD10 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	PDCD10, Polyclonal Antibody
Full Product Name	PDCD10 Rabbit pAb
Product Gene Name	anti-PDCD10 antibody
Product Synonym Gene Name	CCM3; TFAR15
Product Synonym Names	programmed cell death 10
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	pH7.4 PBS, 0.05% NaN3, 40% Glycerol
Purity/Purification	Affinity Purified
Preparation and Storage	Store at -20 degree C.
Molecular Weight	25kDa
OMIM	phenotype 609118
3D Structure	ModBase 3D Structure for Q9BUL8
Immunogen	Fusion protein of human PDC80
Cellular Localization	Cell Membrane, Cytoplasm, Golgi Apparatus, Membrane
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-PDCD10 antibody	Western Blot (WB), Immunohistochemistry (IHC)
Application Notes for anti-PDCD10 antibody	WB: 200-1000 IHC: 25-100
Related Product Information for anti-PDCD10 antibody	MBS8559531 is an antibody targeting PDCD10. Also known as PDCD10 Rabbit pAb. Reactive in Human. Host: Rabbit.
Other Notes	Small volumes of anti-PDCD10 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PDCD10. It may not necessarily be applicable to this product.

NCBI GI #	74733232
NCBI GeneID	11235
NCBI Accession #	Q9BUL8.1
UniProt Primary Accession #	Q9BUL8

UniProt Related Accession #	Q9BUL8
NCBI Official Full Name	Programmed cell death protein 10
NCBI Official Synonym Full Names	programmed cell death 10
NCBI Official Symbol	PDCD10
NCBI Official Synonym Symbols	CCM3; TFAR15
UniProt Protein Name	Programmed cell death protein 10
UniProt Synonym Protein Names	Cerebral cavernous malformations 3 protein; TF-1 cell apoptosis-related protein 15
Protein Family	Programmed cell death protein
UniProt Gene Name	PDCD10
UniProt Synonym Gene Names	CCM3; TFAR15
UniProt Entry Name	PDC10_HUMAN
NCBI Protein Information	programmed cell death protein 10
NCBI Summary for PDCD10	This gene encodes an evolutionarily conserved protein associated with cell apoptosis. The protein interacts with the serine/threonine protein kinase MST4 to modulate the extracellular signal-regulated kinase (ERK) pathway. It also interacts with and is phosphoryated by serine/threonine kinase 25, and is thought to function in a signaling pathway essential for vascular developent. Mutations in this gene are one cause of cerebral cavernous malformations, which are vascular malformations that cause seizures and cerebral hemorrhages. Multiple alternatively spliced variants, encoding the same protein, have been identified. [provided by RefSeq, Jul 2008]
UniProt Comments for PDCD10	PDCD10: Promotes cell proliferation. Modulates apoptotic pathways. Increases mitogen-activated protein kinase activity and MST4 activity. Important for cell migration, and for normal structure and assembly of the Golgi complex. Important for KDR/VEGFR2 signaling. Increases the stability of KDR/VEGFR2 and prevents its breakdown. Required for normal cardiovascular development. Required for normal angiogenesis, vasculogenesis and hematopoiesis during embryonic development. Defects in PDCD10 are the cause of cerebral cavernous malformations type 3 (CCM3). Cerebral cavernous malformations (CCMs) are congenital vascular anomalies of the central nervous system that can result in hemorrhagic stroke, seizures, recurrent headaches, and focal neurologic deficits. CCMs have an incidence of 0.1%-0.5% in the general population and usually present clinically during the 3rd to 5th decade of life. The lesions are characterized by grossly enlarged blood vessels consisting of a single layer of endothelium and without any intervening neural tissue, ranging in diameter from a few millimeters to several centimeters. Belongs to the PDCD10 family. Protein type: Apoptosis Chromosomal Location of Human Ortholog: 3q26.1 Cellular Component: Golgi membrane; Golgi apparatus; cytoplasm; plasma membrane; cytosol Molecular Function: protein binding; protein homodimerization activity; protein N-terminus binding; protein kinase binding Biological Process: protein stabilization; positive regulation of peptidyl-serine phosphorylation; positive regulation of stress-activated MAPK cascade; positive regulation of MAP kinase activity; response to hydrogen peroxide; establishment of Golgi localization; positive regulation of cell proliferation; stress fiber formation; regulation of Rho protein signal transduction; angiogenesis; positive regulation of Notch signaling pathway; negative regulation of apoptosis; positive regulation of cell migration Disease: Cerebral Cavernous Malformations 3
Research Articles on PDCD10	**1.** Loss of programmed cell death 10 activates tumor cells and leads to temozolomide-resistance in glioblastoma, suggesting PDCD10 as a potential target for glioblastoma therapy.

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