

## Rabbit Anti-PDCD10/Cy5 Conjugated antibody

SL6847R-Cy5

<b>Product Name</b>	Anti-PDCD10/Cy5
<b>Chinese Name</b>	Cy5 标记的凋亡相关蛋白 10 抗体
<b>Alias</b>	Apoptosis related protein 15; CCM3; Cerebral cavernous malformations 3 protein; MGC1212; MGC24477; PDC10_HUMAN; PDCD 10; PDCD10; Programmed cell death 10; Programmed cell death protein 10; TF 1 cell apoptosis related protein 15; TF-1 cell apoptosis-related protein 15; TFAR15.
<b>Research Area</b>	Cell biology Developmental biology Neurobiology Apoptosis Kinases and Phosphatases
<b>Immunogen Species</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>React Species</b>	Rat(predicted:Human,Mouse,Chicken,Pig,Horse,Rabbit)
<b>Applications</b>	IF=1:100-500 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight</b>	22kDa
<b>Form</b>	Lyophilized or Liquid
<b>Concentration</b>	1mg/ml
<b>immunogen</b>	KLH conjugated synthetic peptide derived from humna PDCD10
<b>Lsotype</b>	IgG
<b>Purification</b>	affinity purified by Protein A
<b>Storage Buffer</b>	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
<b>Storage</b>	
<b>Product Detail</b>	<b>background:</b> 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 phosphorylated by serine/threonine kinase 25, and is thought to function in a signaling pathway essential for vascular development. 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].

**Function:**

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.

**Subunit:**

Homodimer. Interacts (via C-terminus) with CCM2 and PXN. Interacts (via N-terminus) with MST4, STK24 and STK25. Interacts with GOLGA2. Identified in a complex with CCM1 and CCM2. Interacts with KDR/VEGFR2. Interaction with KDR/VEGFR2 is enhanced by stimulation with VEGFA.

**Subcellular Location:**

Cytoplasm. Golgi apparatus membrane; Peripheral membrane protein; Cytoplasmic side. Cell membrane; Peripheral membrane protein; Cytoplasmic side. Note=Partially co-localizes with endogenous PXN at the leading edges of migrating cells.

**Tissue Specificity:**

Ubiquitous.

**DISEASE:**

Defects in PDCD10 are the cause of cerebral cavernous malformations type 3 (CCM3) [MIM:603285]. 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.



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**Similarity:**

Belongs to the PDCD10 family.

**Database links:**

**Important Note:**

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.