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PDCD4 Antibody

Rabbit mAb
Catalog # AP91366

Product Information

Application	WB, IHC, IF, FC, ICC, IHF
Primary Accession	Q53EL6
Reactivity	Human, Mouse
Clonality	Monoclonal
Other Names	Death up-regulated gene protein; Dug; H731; Ma3; Neoplastic transformation inhibitor; Nuclear antigen H731; Pdcd4; Programmed cell death protein 4; Tis;
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	51735

Additional Information

Dilution	WB 1:500~1:2000 IHC 1:100~1:500 ICC/IF 1:50~1:200 FC 1:50
Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human PDCD4
Description	PDCD4 (programmed cell death protein 4) was identified as a suppressor of neoplastic transformation. It interacts with eukaryotic initiation factors eIF4AI and eIF4AII. PDCD4 colocalizes with eIF4A in the cytoplasm and inhibits the activity of eIF4A as an ATP-dependent RNA helicase.
Storage Condition and Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

Protein Information

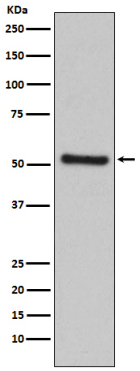
Name	PDCD4
Synonyms	H731
Function	Inhibits translation initiation and cap-dependent translation. May excert its function by hindering the interaction between EIF4A1 and EIF4G. Inhibits the helicase activity of EIF4A. Modulates the activation of JUN kinase. Down-regulates the expression of MAP4K1, thus inhibiting events important in driving invasion, namely, MAPK85 activation and consequent JUN-dependent transcription. May play a role in apoptosis. Tumor suppressor. Inhibits tumor promoter-induced neoplastic transformation. Binds RNA (By similarity).
Cellular Location	Nucleus {ECO:0000250|UniProtKB:Q61823}. Cytoplasm {ECO:0000250|UniProtKB:Q61823}. Note=Shuttles between the nucleus and cytoplasm (By similarity). Predominantly nuclear under normal growth

conditions, and when phosphorylated at Ser-457 (PubMed:16357133)

Tissue Location

Up-regulated in proliferative cells. Highly expressed in epithelial cells of the mammary gland. Reduced expression in lung cancer and colon carcinoma.

Images



Western blot analysis of PDCD4 expression in HeLa cell lysate.

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