

Product datasheet

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ARG56895 anti-PDCD4 antibody

Package: 50 μl Store at: -20°C

Summary

Product Description Rabbit Polyclonal antibody recognizes PDCD4

Tested Reactivity Hu, Ms
Tested Application IHC-P, WB

Host Rabbit

Clonality Polyclonal

Isotype IgG

Target Name PDCD4
Species Human

Immunogen Recombinant fusion protein corresponding to aa. 1-260 of Human PDCD4 (NP_055271.2).

Conjugation Un-conjugated

Alternate Names Neoplastic transformation inhibitor protein; Nuclear antigen H731-like; Protein 197/15a; Programmed

cell death protein 4; H731

Application Instructions

Application table	Application	Dilution
	IHC-P	1:50 - 1:200
	WB	1:500 - 1:2000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	Mouse thymus and HeLa	
Observed Size	~ 60 kDa	

Properties

Form Liquid

Purification Affinity purified.

Buffer PBS (pH 7.3), 0.02% Sodium azide and 50% Glycerol.

Preservative 0.02% Sodium azide

Stabilizer 50% Glycerol

Storage instruction For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot

and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol PDCD4

Gene Full Name programmed cell death 4 (neoplastic transformation inhibitor)

Background This gene is a tumor suppressor and encodes a protein that binds to the eukaryotic translation initiation

factor 4A1 and inhibits its function by preventing RNA binding. Alternative splicing results in multiple

transcript variants. [provided by RefSeq, Dec 2010]

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). [UniProt]

Calculated Mw 52 kDa

PTM Polyubiquitinated, leading to its proteasomal degradation. Rapidly degraded in response to mitogens.

Phosphorylation of the phosphodegron promotes interaction with BTRC and proteasomal degradation.

Phosphorylated at Ser-67 by RPS6KB1 in response to mitogens; phosphorylation promotes proteasomal

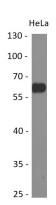
degradation of PDCD4. [UniProt]

Cellular Localization Nucleus. Cytoplasm. Note=Shuttles between the nucleus and cytoplasm (By similarity). Predominantly

nuclear under normal growth conditions, and when phosphorylated at Ser-457 (PubMed:16357133).

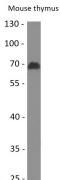
[UniProt]

Images



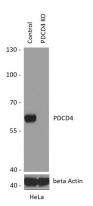
ARG56895 anti-PDCD4 antibody WB image

Western blot: 25 μg of HeLa cell lysate stained with ARG56895 anti-PDCD4 antibody at 1:1000 dilution.



ARG56895 anti-PDCD4 antibody WB image

Western blot: $25 \mu g$ of Mouse thymus lysate stained with ARG56895 anti-PDCD4 antibody at 1:1000 dilution.



ARG56895 anti-PDCD4 antibody WB image

Western blot: 25 μg of extracts from normal (Control) and PDCD4 knockout (KO) HeLa cells, using ARG56895 anti-PDCD4 antibody at 1:1000 dilution.