

Rabbit PDCD4 Polyclonal Antibody | anti-PDCD4 antibody

Phospho-PDCD4 (Ser67) Antibody

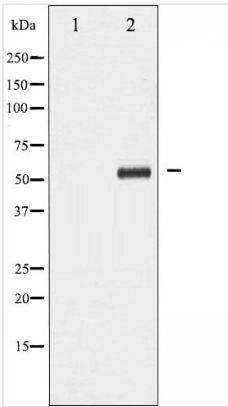
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA321752	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Western Blot

PRODUCT SYNONYMS

PDCD4; Polyclonal Antibody; Phospho-PDCD4 (Ser67) Antibody; Death up-regulated gene protein; Dug; H731; Ma3; MGC33046; MGC33047; Neoplastic transformation inhibitor; Neoplastic transformation inhibitor protein; Nuclear antigen H731; Nuclear antigen H731 like; Nuclear antigen H731 like protein; Nuclear antigen H731-like; PDCD 4; Pdcd4; PDCD4_HUMAN; Programmed cell death 4; programmed cell death 4 (neoplastic transformation inhibitor); Programmed cell death protein 4; Protein 197/15a; Protein MA-3; Tis; Topoisomerase-inhibitor suppressed protein; anti-PDCD4 antibody

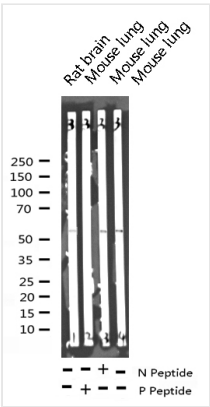
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	Phospho-PDCD4 (Ser67) antibody detects endogenous levels of PDCD4 only when phosphorylated at Serine 67
Purity/Purification	From purified rabbit serum by affinity purification via sequential chromatography on phospho- and non-phospho-peptide affinity columns.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	469
Applicable Applications for anti-PDCD4 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Immunogen	A synthesized peptide derived from human PDCD4 around the phosphorylation site of Serine 67
Subcellular Location	Nucleus. Cytoplasm. Shuttles between the nucleus and cytoplasm. Predominantly nuclear under normal growth conditions, and when phosphorylated at Ser-457. Exported from the nucleus in the absence of serum.
Tissue Specificity	Up-regulated in proliferative cells. Highly expressed in epithelial cells of the mammary gland. Reduced expression in lung cancer and colon carcinoma.
Predicted Cross Reactivity	Pig, Bovine, Horse, Sheep, Rabbit, Dog, Chicken, Xenopus
Similarity	Pig (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (100%), Xenopus (100%)
Conjugation	Unconjugated
Epitope	Phospho Ser67
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



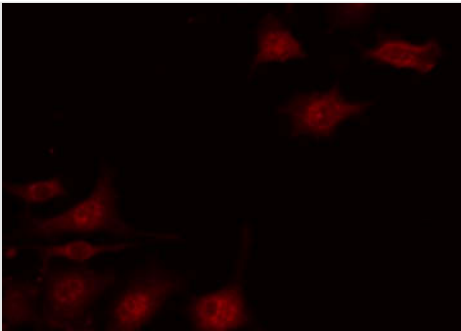
WB (Western Blot)

Western blot analysis of PDCD4 phosphorylation expression in HepG2 whole cell lysates. The lane on the left is treated with the antigen-specific peptide.



WB (Western Blot)

Western blot analysis of Phospho-PDCD4 (Ser67) expression in various lysates



IF (Immunofluorescence)

AAA321752 staining HepG2 by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-PDCD4 antibody

Description: This gene encodes a protein localized to the nucleus in proliferating cells. Expression of this gene is modulated by cytokines in natural killer and T cells. The gene product is thought to play a role in apoptosis but the specific role has not yet been determined. Two transcripts encoding different isoforms have been identified.

Function: Inhibits translation initiation and cap-dependent translation. May exert 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).

Subunit Structure: Interacts (via MI domains) with EIF4A2 (By similarity). Interacts (via MI domains) with EIF4A1 (via N-terminal domain). Heterotrimer with EIF4A1; one molecule of PDCD4 binds two molecules of EIF4A1. Interacts with EIF4G1. May form a complex with EIF4A1 and EIF4G1. The interaction between PDCD4 and EIF4A1 interferes with the interaction between EIF4A1 and EIF4G. When phosphorylated, interacts with BTRC and FBXW11.

Post-translational Modifications: 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.

Similarity: Binds EIF4A1 via both MI domains. Belongs to the PDCD4 family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	21735596
NCBI GeneID	27250

NCBI Accession #	NP_055271.2
NCBI GenBank Nucleotide #	NM_014456.4
UniProt Accession #	Q53EL6 ; O15501 ; Q5VZS6 ; Q6PJI5 ; Q8TAR5 ; Q99834 ; B2RCV4 ; B5ME91
Molecular Weight	Observed: 56 kDa Predicted: 52 kDa
NCBI Official Full Name	programmed cell death protein 4 isoform 1
NCBI Official Synonym Full Names	programmed cell death 4
NCBI Official Symbol	PDCD4
NCBI Official Synonym Symbols	H731
NCBI Protein Information	programmed cell death protein 4
UniProt Protein Name	Programmed cell death protein 4
UniProt Gene Name	PDCD4
UniProt Synonym Gene Names	H731

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/pdcd4-antibody-immunocytochemistry-immunofluorescence-western-blot-elisa/321752>