

## Rabbit PDCD4 Polyclonal Antibody | anti-PDCD4 antibody

Phospho-PDCD4 (Ser67) Antibody

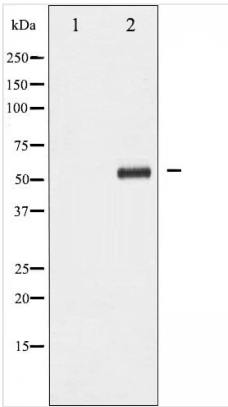
| CATALOG # | HOST   | REACTIVITY        | APPLICATIONS                                                 |
|-----------|--------|-------------------|--------------------------------------------------------------|
| AAA321752 | Rabbit | Human, Mouse, Rat | ELISA, Immunocytochemistry, Immunofluorescence,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

### PRODUCT SYNONYMS

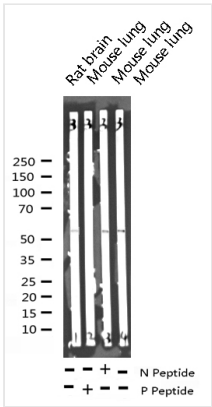
PDCD4; Polyclonal Antibody; Phospho-PDCD4 (Ser67) Antibody; Death up-regulated gene protein; Dug; H731; Ma3; MGC33046; MGC33047; Neoplastic transformation inhibitor; Neoplastic transformation inhibitor protein; Nuclear antigen H731; Nuclear antigen H731 like; Nuclear antigen H731 like protein; Nuclear 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

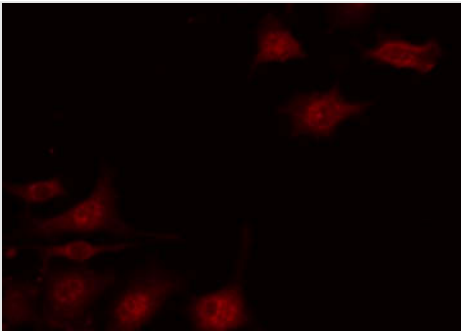
|                                                 |                                                                                                                                                                                                              |
|-------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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<br>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                      | <b>Pig, Bovine, Horse, Sheep, Rabbit, Dog, Chicken, Xenopus</b>                                                                                                                                              |
| 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 #                 | <a href="#">NP_055271.2</a>                                                                                                                                                                           |
| NCBI GenBank Nucleotide #        | <a href="#">NM_014456.4</a>                                                                                                                                                                           |
| UniProt Accession #              | <a href="#">Q53EL6</a> ; <a href="#">O15501</a> ; <a href="#">Q5VZS6</a> ; <a href="#">Q6PJI5</a> ; <a href="#">Q8TAR5</a> ; <a href="#">Q99834</a> ; <a href="#">B2RCV4</a> ; <a href="#">B5ME91</a> |
| Molecular Weight                 | Observed: 56 kDa<br>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                | <b>PDCD4</b>                                                                                                                                                                                          |
| 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://www.aaabiotech.com/polyclonal/pdcd4-antibody-immunocytochemistry-immunofluorescence-western-blot-elisa/321752>