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# Rabbit Anti-PDCD4 antibody

SL1608R

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| **Product Name:** | PDCD4 |
| **Chinese Name:** | 凋亡相关蛋白4抗体 |
| **Alias:** | PDCD-4; PDCD 4; 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; PDCD 4; Programmed cell death 4; programmed cell death 4 (neoplastic transformation inhibitor); Programmed cell death protein 4; Protein 197/15a; Protein MA-3; RP11 348N5.4; Tis; Nuclear antigen H731-like; Pdcd4; PDCD4_HUMAN; Topoisomerase-inhibitor suppressed protein; Topoisomerase-inhibitor suppressed protein (programmed cell death 4). |
| 文献引用 PubMed : | **Specific References(1)**\|SL1608R has been referenced in 1 publications.<br>**[IF=4.20]**Yuan, Qing, et al. "Docetaxel-loaded solid lipid nanoparticles suppress breast cancer cells growth with reduced myelosuppression toxicity." International Journal of Nanomedicine 9 (2014): 4829.**WB;Mouse**.<br>PubMed:25378924 |
| **Organism Species:** | Rabbit |
| **Clonality:** | Polyclonal |
| **React Species:** | Human,Mouse,Rat, |
| **Applications:** | WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500（Paraffin sections need antigen repair）<br>not yet tested in other applications.<br>optimal dilutions/concentrations should be determined by the end user. |
| **Molecular weight:** | 52kDa |
| **Cellular localization:** | The nucleuscytoplasmic |
| **Form:** | Lyophilized or Liquid |
| **Concentration:** | 1mg/ml |
| **immunogen:** | KLH conjugated synthetic peptide derived from human PDCD4:1-100/469 |

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| **Lsotype:** | IgG |
| **Purification:** | affinity purified by Protein A |
| **Storage Buffer:** | 0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol. |
| **Storage:** | 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 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C. |
| **PubMed:** | PubMed |
| **Product Detail:** | 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. Alternative names: H731; MGC33046; MGC33047; Neoplastic transformation inhibitor; Neoplastic transformation inhibitor protein; Nuclear antigen H731; Nuclear antigen H731 like; Nuclear antigen H731 like protein; OTTHUMP00000020483; PDCD 4; Programmed cell death 4; programmed cell death 4 (neoplastic transformation inhibitor) ; Programmed cell death protein 4; Protein 197/15a ; RP11 348N5.4 .<br><br>**Function:**<br>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).<br><br>**Subunit:**<br>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.<br><br>**Subcellular Location:**<br>Nucleus. Cytoplasm. Note=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.<br><br>**Tissue Specificity:**<br>Up-regulated in proliferative cells. Highly expressed in epithelial cells of the mammary gland. Reduced expression in lung cancer and colon carcinoma.<br><br>**Post-translational modifications:**<br>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:**
Belongs to the PDCD4 family.
Contains 2 MI domains.

**SWISS:**
Q53EL6

**Gene ID:**
27250

**Database links:**

Entrez Gene: 27250Human

Entrez Gene: 18569Mouse

Entrez Gene: 64031Rat

Omim: 608610Human

SwissProt: Q53EL6Human

SwissProt: Q61823Mouse

SwissProt: Q9JID1Rat

Unigene: 711490Human

Unigene: 1605Mouse

Unigene: 375091Mouse

Unigene: 206228Rat



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

**程序性细胞死亡因子4是近期发现一种新的抑癌基因，在很多Tumour组织中有不同的表达。**

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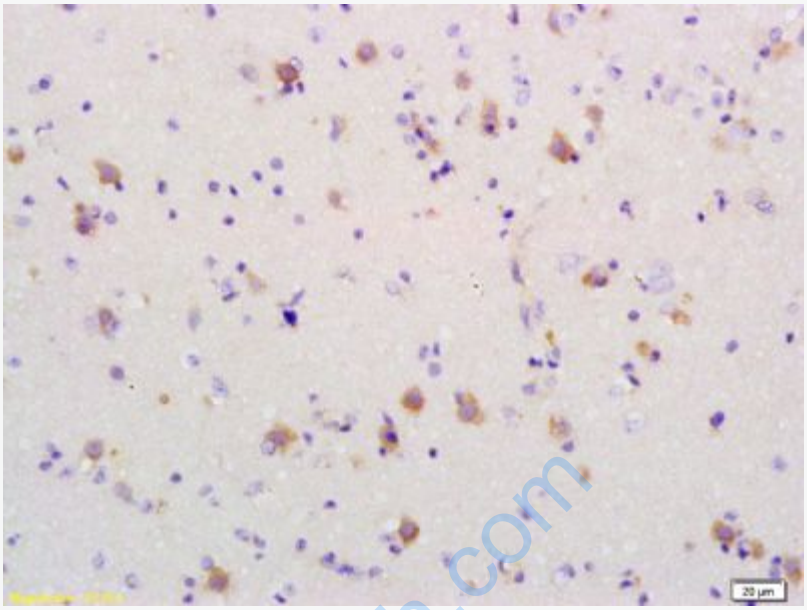
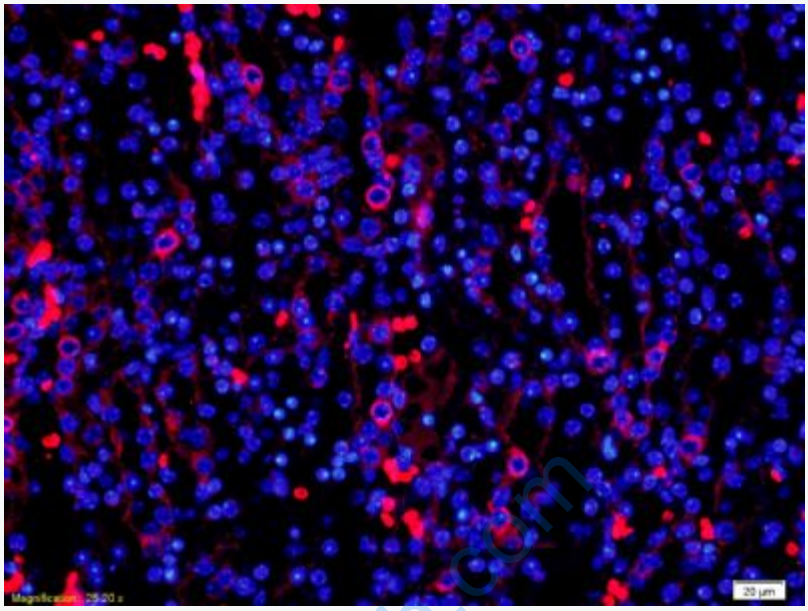
| **Picture:** |  <br>Sample:<br>Lane1: Kidney(Rat) Lysate at 30 ug<br>Lane2: Colon carcinoma(Mouse) Lysate at 30 ug<br>Primary: Anti-PDCD4 (SL1608R) at 1:200 dilution;<br>Secondary: HRP conjugated Goat Anti-Rabbit IgG(SL1608R) at 1:3000 dilution;<br>Predicted band size : 50kD<br>Observed band size : 50kD |



Tissue/cell: human glioma tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer ( 0.01M, pH 6.0 ), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37℃ for 20 min;

Incubation: Anti-PDCD4 Polyclonal Antibody, Unconjugated(SL1608R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Tissue/cell: mouse kidney tissue;4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer ( 0.01M, pH 6.0 ), Boiling bathing for 15min;

Blocking buffer (normal goat serum,C-0005) at 37℃ for 20 min;

Incubation: Anti-PDCD4 Polyclonal Antibody, Unconjugated(SL1608R) 1:200, overnight at 4°C; The secondary antibody was Goat Anti-Rabbit IgG, Cy3 conjugated(SL1608R)used at 1:200 dilution for 40 minutes at 37°C.

DAPI(5ug/ml,blue,C-0033) was used to stain the cell nuclei