SunLong Biotech Co.,LTD
Tel: 0086-571-56623320 Fax:0086-571-56623318
E-mail:sales@sunlongbiotech.com
www.sunlongbiotech.com

Rabbit Anti-PDCD4 antibody

SL55166R

Product Name	**[KO validated anti]** 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).
Research Area	Tumour Cell biology Chromatin and nuclear signals Epigenetics
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Human(predicted:Mouse)
Applications	WB=1:500-2000,IHC-P=1:400-800,IHC-F=1:400-800,IF=1:100-500,ELISA=1:5000-10000 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Theoretical molecular weight	51kDa
Cellular localization	The nucleus cytoplasmic
Form	Liquid
Concentration	1mg/ml
immunogen	Recombinant human PDCD4: 1-260/469
Lsotype	IgG
Purification	affinity purified by Protein A
Buffer Solution	1M TBS(pH7.4) with 1% BSA, 3% 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 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Attention	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
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 . **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). **Subunit:** 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. **Subcellular Location:** 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. **Tissue Specificity:** Up-regulated in proliferative cells. Highly expressed in epithelial cells of the mammary gland. Reduced expression in lung cancer and colon carcinoma. **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:
Belongs to the PDCD4 family.
Contains 2 MI domains.

SWISS:
Q53EL6

Gene ID:
27250

Database links:

Entrez Gene: 27250 Human

Entrez Gene: 18569 Mouse

Entrez Gene: 64031 Rat

Omim: 608610 Human

SwissProt: Q53EL6 Human

SwissProt: Q61823 Mouse

SwissProt: Q9JID1 Rat

Unigene: 711490 Human

Unigene: 1605 Mouse

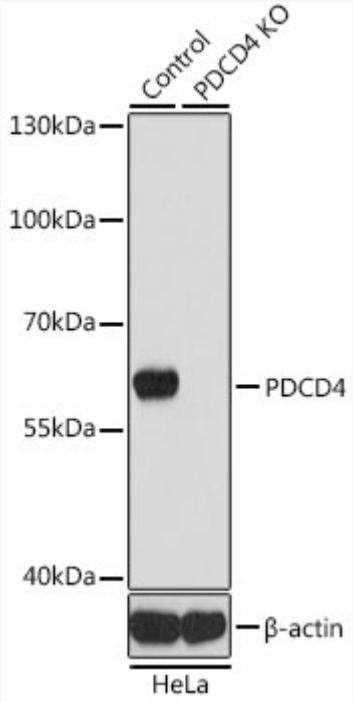
Unigene: 375091 Mouse

Unigene: 206228 Rat

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。

SunLong Biotech Co.,LTD
Tel: 0086-571-56623320 Fax:0086-571-56623318
E-mail:sales@sunlongbiotech.com
www.sunlongbiotech.com

Product Picture



Sample:

Lane 1: Hela (Human) Cell Lysate at 25 ug

Lane 2: PDCD4 knockout (KO) Hela (Human) Cell Lysate at 25 ug

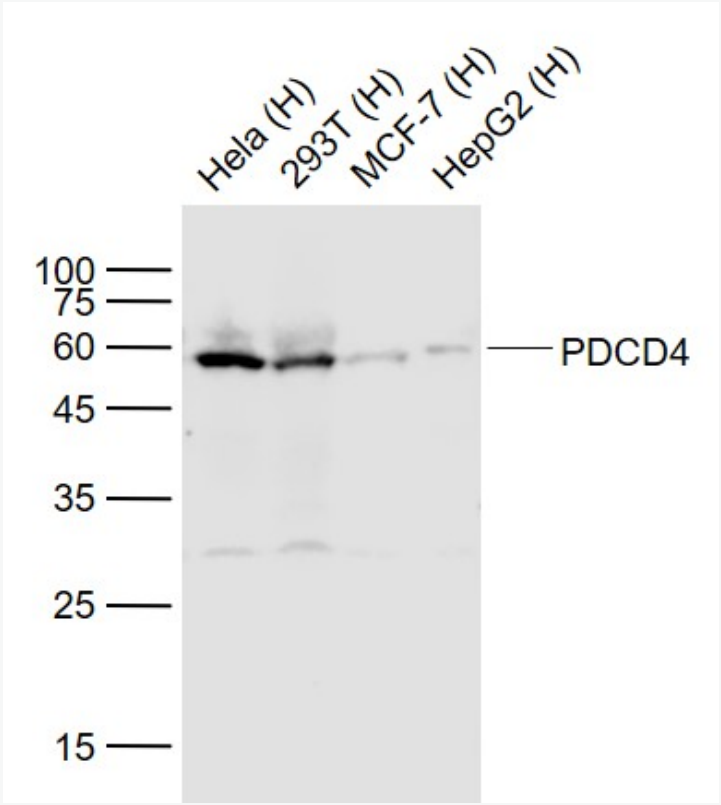
Primary: Anti-PDCD4 (SL55166R) at 1/1000 dilution

Secondary: HRP Goat Anti-Rabbit IgG (H+L) at 1:10000 dilution

Predicted band size: 60 kD

Observed band size: 60 kD

SunLong Biotech Co.,LTD
Tel: 0086-571-56623320 Fax:0086-571-56623318
E-mail:sales@sunlongbiotech.com
www.sunlongbiotech.com



Sample:

Lane 1: Hela (Human) Cell Lysate at 30 ug

Lane 2: 293T (Human) Cell Lysate at 30 ug

Lane 3: MCF-7 (Human) Cell Lysate at 30 ug

Lane 4: HepG2 (Human) Cell Lysate at 30 ug

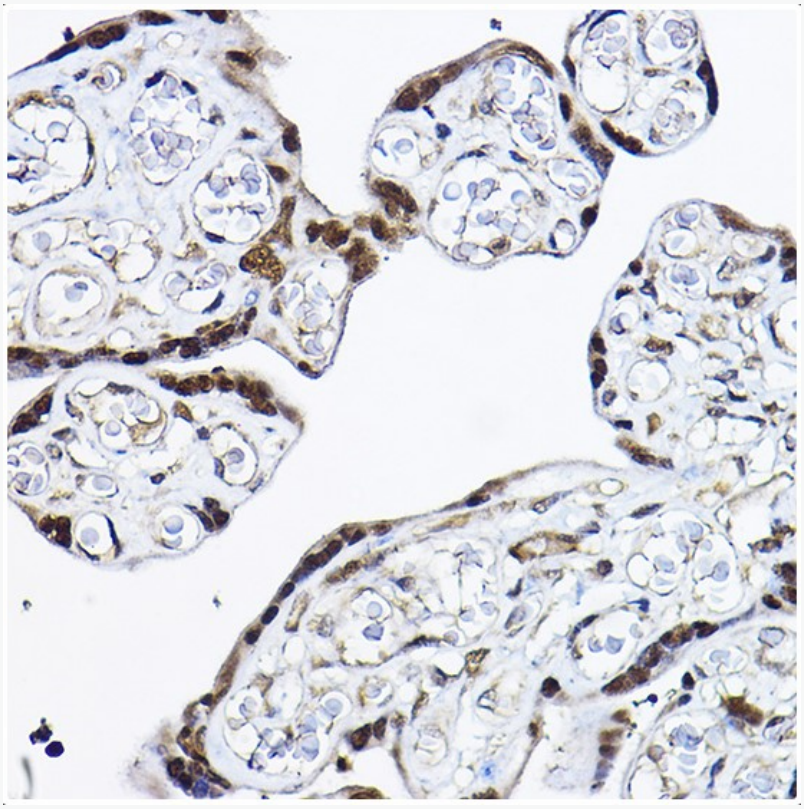
Primary: Anti-PDCD4 (SL55166R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 60 kD

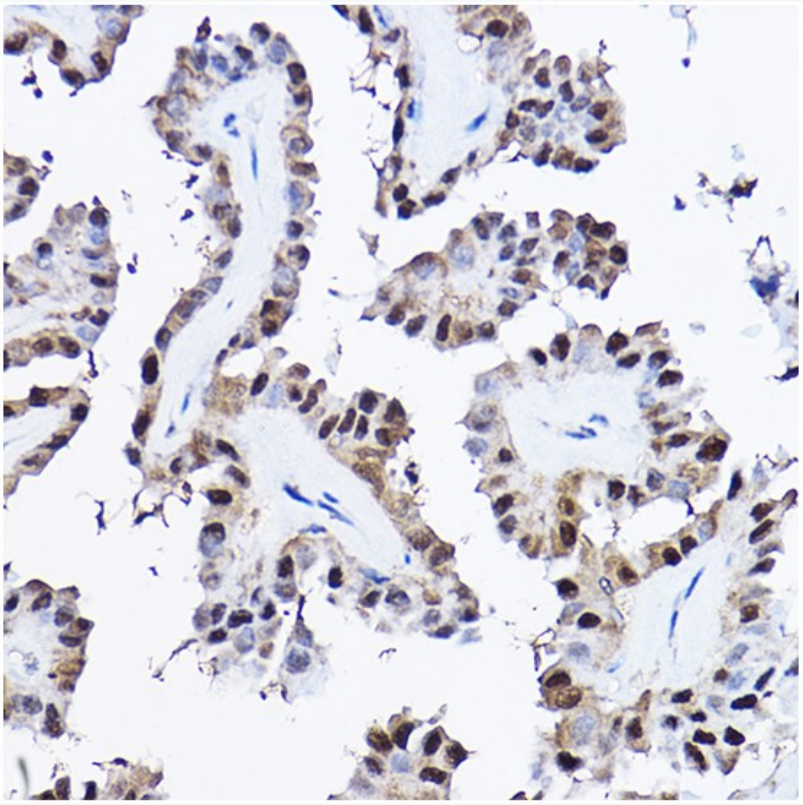
Observed band size: 58 kD

SunLong Biotech Co.,LTD
Tel: 0086-571-56623320 Fax:0086-571-56623318
E-mail:sales@sunlongbiotech.com
www.sunlongbiotech.com



Paraformaldehyde-fixed, paraffin embedded (human placenta); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (PDCD4) Polyclonal Antibody, Unconjugated (SL55166R) at 1:25 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

SunLong Biotech Co.,LTD
Tel: 0086-571-56623320 Fax:0086-571-56623318
E-mail:sales@sunlongbiotech.com
www.sunlongbiotech.com



Paraformaldehyde-fixed, paraffin embedded (human thyroid cancer); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (PDCD4) Polyclonal Antibody, Unconjugated (SL55166R) at 1:25 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.