

Rabbit Anti-phospho-PDCD4 (Ser457)/AF350 Conjugated antibody

SL12591R-AF350

Product Name	Anti-phospho-PDCD4 (Ser457)/AF350
Chinese Name	AF350 标记的磷酸化凋亡相关蛋白 4 抗体
Alias	PDCD4 (phospho S457); p-PDCD4 (phospho S457); 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; Pcd4; 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.
Product Type	Phosphorylated anti
Research Area	Tumour Cell biology Neurobiology Apoptosis Cyclin Epigenetics
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Human,Mouse(predicted:Rat,Chicken,Pig,Horse,Rabbit,Zebrafish,Sheep)
Applications	ICC/IF=1:100-500 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight	52kDa
Form	Lyophilized or Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthesised phosphopeptide derived from human PDCD4 around the phosphorylation site of Ser457
Lsotype	IgG
Purification	affinity purified by Protein A
Storage Buffer	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.

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 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.

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.

Product Detail

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.

Similarity:

Belongs to the PDCD4 family.
Contains 2 MI domains.

Database links:

[Entrez Gene: 374191](#) Chicken

[Entrez Gene: 506724](#) Cow

[Entrez Gene: 27250](#) Human

[Entrez Gene: 18569](#) Mouse

[Entrez Gene: 100173014](#) Orangutan

[Entrez Gene: 100157112](#) Pig

[Entrez Gene: 100354557](#) Rabbit

[Entrez Gene: 64031](#) Rat

[Omim: 608610](#) Human

[SwissProt: Q98TX3](#) Chicken

[SwissProt: Q53EL6](#) Human

[SwissProt: Q61823](#) Mouse

[SwissProt: Q5R8S3](#) Orangutan

[SwissProt: Q9JID1](#) Rat

[Unigene: 711490](#) Human

[Unigene: 1605](#) Mouse

[Unigene: 375091](#) Mouse

[Unigene: 206228](#) Rat

Important Note:

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