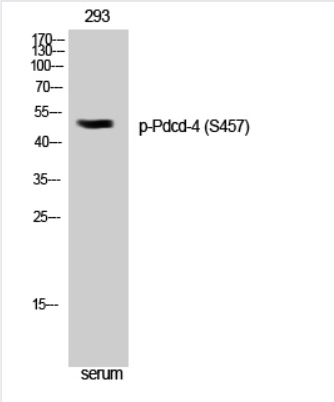
PDCD-4 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Pdcd-4, Polyclonal Antibody
Full Product Name	Pdcd-4 (phospho Ser457) Polyclonal Antibody
Product Gene Name	anti-Pdcd-4 antibody
Product Synonym Gene Name	PDCD4
Product Synonym Names	PDCD4; H731; Programmed cell death protein 4; Neoplastic transformation inhibitor protein; Nuclear antigen H731-like; Protein 197/15a
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 2 weeks. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.
Molecular Weight	51,735 Da
Chromosome Location	Chromosome: 10; NC_000010.10 (112631553..112659764). Location: 10q24
OMIM	608610
3D Structure	ModBase 3D Structure for Q53EL6
Applications Tested/Suitable for anti-Pdcd-4 antibody	Western Blot (WB), Immunohistochemistry-Paraffin (IHC-P)
Related Product Information for anti-Pdcd-4 antibody	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).
Other Notes	Small volumes of anti-Pdcd-4 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for Pdcd-4 purchase	MBS9242371 is an antibody targeting Pdcd-4. Also known as Pdcd-4 (phospho Ser457) Polyclonal Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.



Wester Blot (WB) of anti-Pdcd-4 antibody
Dilution: Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/10000. Not yet tested in other applications.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Pdcd-4. It may not necessarily be applicable to this product.

NCBI GI #	21735596
NCBI GeneID	27250
NCBI Accession #	NP_055271.2
UniProt Primary Accession #	Q53EL6
UniProt Secondary Accession #	O15501; Q5VZS6; Q6PJI5; Q8TAR5; Q99834; B2RCV4; B5ME91
UniProt Related Accession #	Q53EL6
GenBank Nucleotide #	NM_014456.4
NCBI Official Full Name	programmed cell death protein 4 isoform 1
NCBI Official Synonym Full Names	programmed cell death 4 (neoplastic transformation inhibitor)
NCBI Official Symbol	PDCD4
NCBI Official Synonym Symbols	H731
UniProt Protein Name	Programmed cell death protein 4
UniProt Synonym Protein Names	Neoplastic transformation inhibitor protein; Nuclear antigen H731-like; Protein 197/15a
UniProt Gene Name	PDCD4
UniProt Synonym Gene Names	H731
UniProt Entry Name	PDCD4_HUMAN
NCBI Protein Information	programmed cell death protein 4; protein 197/15a; nuclear antigen H731; neoplastic transformation inhibitor protein
NCBI Summary for Pdcd-4	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]

UniProt Comments for Pdcd-4	PDCD4: protein localized to the nucleus in proliferating cells that seems to possess a tumor suppressor activity. Directly interacts with the RNA helicase eIF4A and inhibits protein synthesis by interfering with the assembly of the cap-dependent translation initiation complex. Suppresses carbonic anhydrase type II protein expression in carcinoid cell lines. Since tumor cells require a high bicarbonate flux for their growth, carbonic anhydrase suppression results in growth inhibition. 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 differentially spliced isoforms have been identified. Protein type: Tumor suppressor; Apoptosis Chromosomal Location of Human Ortholog: 10q24 Cellular Component: nucleoplasm; cytoplasm; nucleus; cytosol Molecular Function: protein binding; RNA binding Biological Process: negative regulation of JNK activity; apoptosis; cell aging; negative regulation of transcription, DNA-dependent; negative regulation of cell cycle
Research Articles on Pdcd-4	**1.** Loss of PDCD4 indicates chemoresistance in pancreatic cancer.
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