Product Name: MADD Rabbit Polyclonal Antibody
Catalog #: APRab13558
For research use only.

Summary

Description	Rabbit polyclonal Antibody
Host	Rabbit
Application	WB,IHC,ICC/IF,ELISA
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Concentration	1mg/ml
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:500-1:2000,IHC 1:100-1:300,ICC/IF 1:200-1:1000,ELISA 1:5000-1:10000
Molecular Weight	183kDa

Antigen Information

Gene Name	MADD
Alternative Names	MADD; DENN; IG20; KIAA0358; MAP kinase-activating death domain protein; Differentially expressed in normal and neoplastic cells; Insulinoma glucagonoma clone 20; Rab3 GDP/GTP exchange factor
Gene ID	8567.0
SwissProt ID	Q8WXG6
Immunogen	The antiserum was produced against synthesized peptide derived from human MADD. AA range:751-800

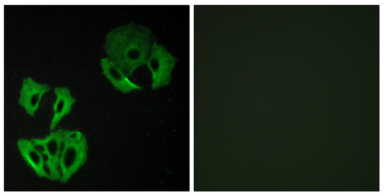
Background

Tumor necrosis factor alpha (TNF-alpha) is a signaling molecule that interacts with one of two receptors on cells targeted for apoptosis. The apoptotic signal is transduced inside these cells by cytoplasmic adaptor proteins. The protein encoded by this gene is a death domain-containing adaptor protein that interacts with the death domain of TNF-alpha receptor 1 to activate mitogen-activated protein kinase (MAPK) and propagate the apoptotic signal. It is membrane-bound and expressed at a higher level in neoplastic cells than in normal cells. Several transcript variants encoding different isoforms have been described for this gene. [provided by RefSeq, Jul 2008],caution:The sequence shown here is derived from an Ensembl automatic analysis pipeline and should be considered as preliminary data.,function:Plays a significant role in regulating cell proliferation, survival and death through alternative mRNA splicing. Isoform 5 shows increased cell proliferation and isoform 2 shows decreased. Converts GDP-bound inactive form of RAB3A, RAB3C and RAB3D to the GTP-bound active forms. Component of the TNFRSF1A signaling complex: MADD links TNFRSF1A with MAP kinase activation. Plays an important regulatory role in physiological cell death (TNF-alpha-induced, caspase-mediated apoptosis); isoform 1 is susceptible to inducing apoptosis, isoform 5 is resistant and isoform 3 and isoform 4 have no effect.,miscellaneous:Overexpression of MADD activates the mitogen-activated protein (MAP) kinase extracellular signal-regulated kinase (ERK). Expression of the MADD death domain stimulates both the ERK and c-JUN N-terminal kinase MAP kinases and induces the phosphorylation of cytosolic phospholipase A2.,similarity:Belongs to the MADD family.,similarity:Contains 1 dDENN domain.,similarity:Contains 1 death domain.,similarity:Contains 1 DENN domain.,similarity:Contains 1 uDENN domain.,subunit:Interacts with the death domain of TNFRSF1A through its own death domain.,tissue specificity:Highly expressed in fetal brain and kidney; adult testis, ovary, brain and heart. Isoform 5 is constitutively expressed in all tissues. Isoform 7 is expressed in fetal liver and in several cancer cell lines.,

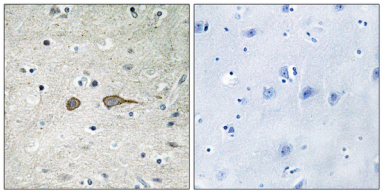
Research Area

FADD; Cancer; Cell Death; Apoptosis; Receptors; Death receptors & ligands; TRADD; Metabolism; Pathways and Processes; Mitochondrial Metabolism; Mitochondrial markers; Invasion/microenvironment

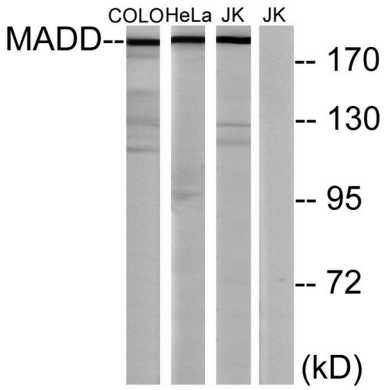
Image Data



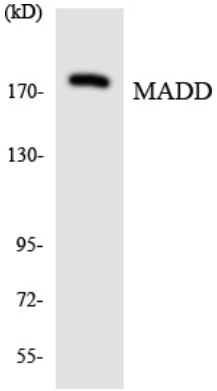
Immunofluorescence analysis of A549 cells, using MADD Antibody. The picture on the right is blocked with the synthesized peptide.



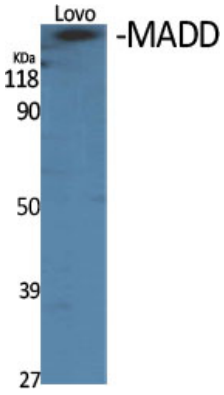
Immunohistochemistry analysis of paraffin-embedded human brain tissue, using MADD Antibody. The picture on the right is blocked with the synthesized peptide.



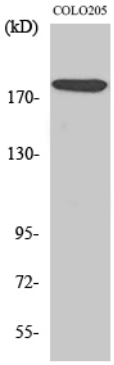
Western blot analysis of lysates from COLO, HeLa, and Jurkat cells, using MADD Antibody. The lane on the right is blocked with the synthesized peptide.



Western blot analysis of the lysates from HepG2 cells using MADD antibody.



Western Blot analysis of various cells using MADD Polyclonal Antibody diluted at 1：1000



Western Blot analysis of Jurkat cells using MADD Polyclonal Antibody diluted at 1: 1000