

# MADD Polyclonal Antibody

Catalog # AP70803

## Product Information

Application	WB, IHC-P, IF
Primary Accession	<a href="#">Q8WVG6</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	183303

## Additional Information

Gene ID	8567
Other 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
Dilution	WB~~Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/5000. Not yet tested in other applications. IHC-P~~N/A IF~~1:50~200
Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.
Storage Conditions	-20°C

## Protein Information

Name	MADD {ECO:0000312 EMBL:AAB57735.1, ECO:0000312 HGNC:HGNC:6766}
Function	Guanyl-nucleotide exchange factor that regulates small GTPases of the Rab family (PubMed: <a href="#">18559336</a> , PubMed: <a href="#">20937701</a> ). Converts GDP-bound inactive form of RAB27A and RAB27B to the GTP-bound active forms (PubMed: <a href="#">18559336</a> , PubMed: <a href="#">20937701</a> ). Converts GDP-bound inactive form of RAB3A, RAB3C and RAB3D to the GTP-bound active forms, GTPases involved in synaptic vesicle exocytosis and vesicle secretion (By similarity). Plays a role in synaptic vesicle formation and in vesicle trafficking at the neuromuscular junction (By similarity). Involved in up-regulating a post-docking step of synaptic exocytosis in central synapses (By similarity). Probably by binding to the motor proteins KIF1B and KIF1A, mediates motor-dependent transport of GTP-RAB3A- positive vesicles to the presynaptic nerve terminals (By similarity). Plays a role in TNFA-mediated activation of the MAPK pathway, including ERK1/2 (PubMed: <a href="#">32761064</a> ). May link TNFRSF1A with MAP kinase activation (PubMed: <a href="#">9115275</a> ). May be involved in the regulation of TNFA-induced apoptosis (PubMed: <a href="#">11577081</a> ,

PubMed:[32761064](#)).

## Cellular Location

Cell membrane. Cytoplasm. Cell projection, axon  
{ECO:0000250|UniProtKB:Q80U28}

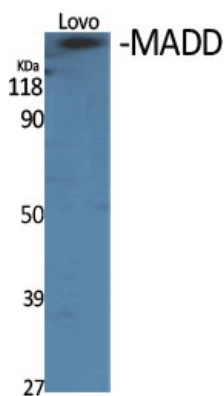
## Tissue Location

Expressed in testis, ovary, brain and heart (PubMed:8988362). Expressed in spleen, thymus, prostate, testis, ovary, small intestine and colon (PubMed:9115275). Expressed in liver (PubMed:9796103). [Isoform 2]: Expressed in the brain, breast, kidney, lung, ovary, pancreas, testis, uterus, stomach and thyroid [Isoform 4]: Expressed in the brain, breast, kidney, lung, ovary, pancreas, testis, uterus, stomach and thyroid [Isoform 6]: Not detected in the brain, breast, kidney, lung, ovary, pancreas, testis, uterus, stomach and thyroid

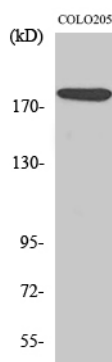
## Background

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.

## Images



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

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.