10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

KD-Validated Anti-MAP Kinase Activating Death Domain Rabbit Monoclonal Antibody

Rabbit monoclonal antibody
Catalog # AGI1587

Specification

KD-Validated Anti-MAP Kinase Activating Death Domain Rabbit Monoclonal Antibody - Product Information

Application	**WB, FC, ICC**
Primary Accession	Q8WXG6
Reactivity	**Rat, Human, Mouse**
Clonality	**Monoclonal**
Isotype	**Rabbit IgG**
Calculated MW	**Predicted, 183 kDa, observed , 230 kDa KDa**
Gene Name	**MADD**
Aliases	**MAP Kinase Activating Death Domain; DENN; Differentially Expressed In Normal And Neoplastic Cells; KIAA0358; RAB3GEP; IG20; MAP Kinase-Activating Death Domain Protein; Insuloma-Glucagonoma Protein 20; Insulinoma Glucagonoma Clone 20; Rab3 GDP/GTP Exchange Protein; Rab3 GDP/GTP Exchange Factor; RabGEF; MAP-Kinase Activating Death Domain; NEDDISH; Rab3GEP; DEEAH**
Immunogen	**A synthesized peptide derived from human DENN**

KD-Validated Anti-MAP Kinase Activating Death Domain Rabbit Monoclonal Antibody - Additional Information

Gene ID	**8567**

Other Names
MAP kinase-activating death domain protein, Differentially expressed in normal and neoplastic cells, Insulinoma glucagonoma clone 20, Rab3 GDP/GTP exchange factor, RabGEF, Rab3 GDP/GTP exchange protein, Rab3GEP, MADD {ECO:0000312|EMBL:AAB57735.1, ECO:0000312|HGNC:HGNC:6766}

KD-Validated Anti-MAP Kinase Activating Death Domain Rabbit Monoclonal Antibody - 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:18559336, PubMed:20937701). Converts GDP-bound inactive form of RAB27A and RAB27B to the GTP-bound active forms (PubMed:<a

href="http://www.uniprot.org/citations/18559336" target="_blank">18559336, PubMed:20937701). 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:32761064). May link TNFRSF1A with MAP kinase activation (PubMed:9115275). May be involved in the regulation of TNFA-induced apoptosis (PubMed:11577081, 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 instestine 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

KD-Validated Anti-MAP Kinase Activating Death Domain Rabbit Monoclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

KD-Validated Anti-MAP Kinase Activating Death Domain Rabbit Monoclonal Antibody - Images

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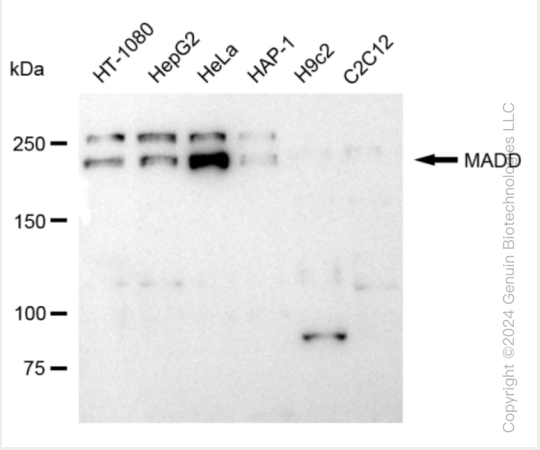
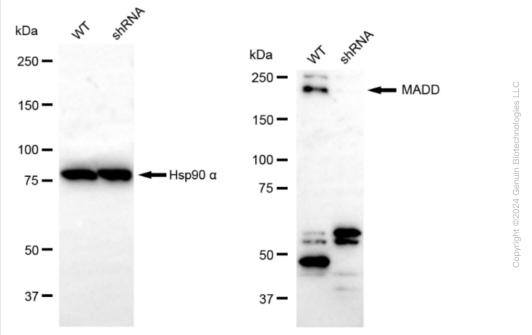
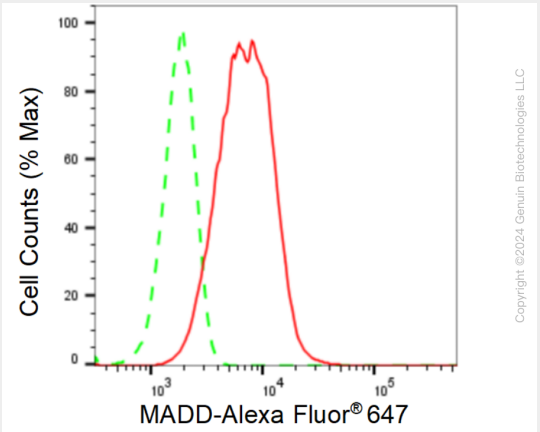


Western blotting analysis using anti-MADD antibody (Cat#AGI1587). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-MADD antibody (Cat#AGI1587, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Western blotting analysis using anti-MADD antibody (Cat#AGI1587). MADD expression in wild type (WT) and MADD shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-MADD antibody (Cat#AGI1587, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Flow cytometric analysis of MADD expression in HeLa cells using MADD antibody (Cat#Cat#AGI1587, 1:2,000). Green, isotype control; red, MADD.

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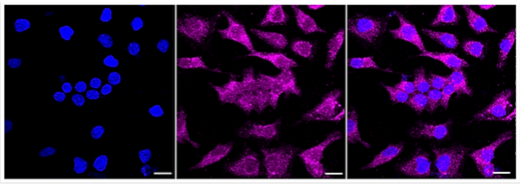

Immunocytochemical staining of HeLa cells with anti-MADD antibody (Cat#AGI1587, 1:1,000). Nuclei were stained blue with DAPI; MADD was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar: 20 µm.