SANTA CRUZ BIOTECHNOLOGY, INC.

MADD (P-20): sc-79630

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The Power to Question

BACKGROUND

MADD (MAP-kinase activating death domain), also known as DENN, IG20 or KIAA0358, is a 1,647 amino acid multi-pass membrane protein that contains one DENN domain and one death domain and belongs to the MADD family. Expressed at high levels in adult testis, heart and ovary, as well as in fetal brain and kidney, MADD interacts with TNF-R1 and plays an important role in cell proliferation, survival and death, specifically by regulating alternative splicing events. Overexpression of MADD stimulates the mitogen-activated protein (MAP) kinase extracellular signal-regulated kinase (ERK), thereby influencing MAP kinase signaling cascades. Multiple isoforms of MADD exist due to alternative splicing events.

REFERENCES

1. Chow, V.T., et al. 1996. DENN, a novel human gene differentially expressed in normal and neoplastic cells. DNA Seq. 6: 263-273.
2. Schievella, A.R., et al. 1997. MADD, a novel death domain protein that interacts with the type 1 tumor necrosis factor receptor and activates mitogen-activated protein kinase. J. Biol. Chem. 272: 12069-12075.
3. Chow, V.T., et al. 1998. The human DENN gene: genomic organization, alternative splicing, and localization to chromosome 11p11.21-p11.22. Genome 41: 543-552.
4. Telliez, J.B., et al. 2000. LRDD, a novel leucine rich repeat and death domain containing protein. Biochim. Biophys. Acta 1478: 280-288.
5. Al-Zoubi, A.M., et al. 2001. Contrasting effects of IG20 and its splice isoforms, MADD and DENN-SV, on tumor necrosis factor α-induced apoptosis and activation of caspase-8 and -3. J. Biol. Chem. 276: 47202-47211.
6. Lim, K.M., et al. 2002. Induction of marked apoptosis in mammalian cancer cell lines by antisense DNA treatment to abolish expression of DENN (differentially expressed in normal and neoplastic cells). Mol. Carcinog. 35: 110-126.

CHROMOSOMAL LOCATION

Genetic locus: MADD (human) mapping to 11p11.2; Madd (mouse) mapping to 2 E1.

SOURCE

MADD (P-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of MADD of human origin.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-79630 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

Available as TransCruz reagent for Gel Supershift and ChIP applications, sc-79630 X, 200 µg/0.1 ml.

APPLICATIONS

MADD (P-20) is recommended for detection of MADD of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

MADD (P-20) is also recommended for detection of MADD in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for MADD siRNA (h): sc-75726, MADD siRNA (m): sc-75727, MADD shRNA Plasmid (h): sc-75726-SH, MADD shRNA Plasmid (m): sc-75727-SH, MADD shRNA (h) Lentiviral Particles: sc-75726-V and MADD shRNA (m) Lentiviral Particles: sc-75727-V.

MADD (P-20) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight (predicted) of MADD: 176 kDa.

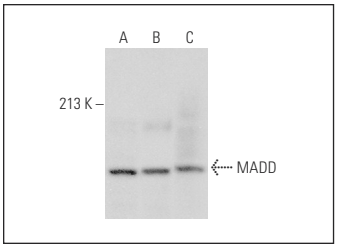
Molecular Weight (observed) of MADD: 200 kDa.

Positive Controls: NIH/3T3 whole cell lysate: sc-2210, HEK293 whole cell lysate: sc-45136 or KNRK whole cell lysate: sc-2214.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



MADD (P-20): sc-79630. Western blot analysis of MADD expression in NIH/3T3 (**A**), HEK293 (**B**) and KNRK (**C**) whole cell lysates.

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

RESEARCH USE

For research use only, not for use in diagnostic procedures.