

MSANTD2 (B-8): sc-390361



The Power to Question

BACKGROUND

With approximately 135 million base pairs and 1,400 genes, chromosome 11 makes up around 4% of human genomic DNA and is considered a gene and disease association-dense chromosome. The chromosome 11-encoded *Atm* gene is important for regulation of cell cycle arrest and apoptosis following double strand DNA breaks. *Atm* mutation leads to the disorder known as ataxia telangiectasia. The blood disorders sickle cell anemia and β thalassemia are caused by *HBB* gene mutations. Wilms' tumors, WAGR syndrome and Denys-Drash syndrome are associated with mutations of the *WT1* gene. Jervell and Lange-Nielsen syndrome, Jacobsen syndrome, Niemann-Pick disease, hereditary angioedema and Smith-Lemli-Opitz syndrome are also associated with defects in chromosome 11.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: MSANTD2 (human) mapping to 11q24.2; *Msantd2* (mouse) mapping to 9 A4.

SOURCE

MSANTD2 (B-8) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 237-271 within an internal region of MSANTD2 of human origin.

PRODUCT

Each vial contains 200 μ g IgM kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-390361 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% stabilizer protein).

APPLICATIONS

MSANTD2 (B-8) is recommended for detection of MSANTD2 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)], 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); non cross-reactive with other C11orf family members.

MSANTD2 (B-8) is also recommended for detection of MSANTD2 in additional species, including canine, bovine and porcine.

Suitable for use as control antibody for MSANTD2 siRNA (h): sc-96683, MSANTD2 siRNA (m): sc-141535, MSANTD2 shRNA Plasmid (h): sc-96683-SH, MSANTD2 shRNA Plasmid (m): sc-141535-SH, MSANTD2 shRNA (h) Lentiviral Particles: sc-96683-V and MSANTD2 shRNA (m) Lentiviral Particles: sc-141535-V.

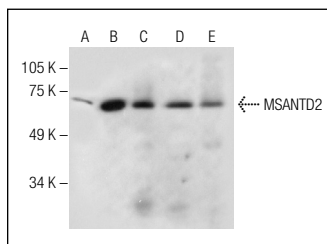
Molecular Weight of MSANTD2: 61 kDa.

Positive Controls: MSANTD2 (h): 293T Lysate: sc-116988, PC-3 cell lysate: sc-2220 or MCF7 whole cell lysate: sc-2206.

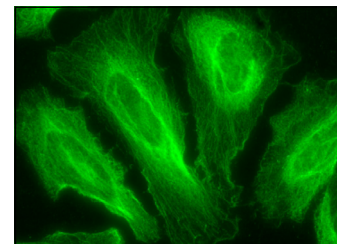
RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgG κ BP-HRP: sc-516102 or m-IgG κ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein L-Agarose: sc-2336 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use m-IgG κ BP-FITC: sc-516140 or m-IgG κ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

DATA



MSANTD2 (B-8): sc-390361. Western blot analysis of MSANTD2 expression in non-transfected 293T: sc-117752 (A), human MSANTD2 transfected 293T: sc-116988 (B), PC-3 (C), MCF7 (D) and Ramos (E) whole cell lysates.



MSANTD2 (B-8): sc-390361. Immunofluorescence staining of methanol-fixed HeLa cells showing cytoplasmic and membrane localization.

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.