

Mig12 (D-20): sc-168607

BACKGROUND

Mig12, also known as MID1P1 (Mid1-interacting protein 1), gastrulation-specific G12-like protein or STRAIT11499, is a 183 amino acid nuclear and cytoplasmic protein that belongs to the SPOT14 family. Mig12 is thought to play a role in the stabilization of microtubules through interaction with Midline-1. The gene encoding Mig12 maps to human chromosome Xp11.4. Chromosome X consists of about 153 million base pairs and nearly 1,000 genes. The combination of a X and Y chromosome lead to normal male development while two copies of X lead to normal female development. There are a number of conditions related to an unusual number and combination of sex chromosomes being inherited, including Turner's syndrome, Klinefelter's syndrome and Triple X syndrome. Color blindness, hemophilia and Duchenne muscular dystrophy are well known X chromosome-linked conditions which affect males more frequently as males carry a single X chromosome.

REFERENCES

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3. Berti, C., et al. 2004. Mig12, a novel Opitz syndrome gene product partner, is expressed in the embryonic ventral midline and co-operates with Mid1 to bundle and stabilize microtubules. *BMC Cell Biol.* 5: 9.
4. Deeb, S.S. 2005. The molecular basis of variation in human color vision. *Clin. Genet.* 67: 369-377.
5. Bojesen, A., et al. 2006. The metabolic syndrome is frequent in Klinefelter's syndrome and is associated with abdominal obesity and hypogonadism. *Diabetes Care* 29: 1591-1598.
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7. Helderma-van den Enden, A.T., et al. 2009. Recurrence risk due to germ line mosaicism: Duchenne and Becker muscular dystrophy. *Clin. Genet.* 75: 465-472.
8. Kasper, C.K. and Buzin, C.H. 2009. Mosaicism and haemophilia. *Haemophilia.* 13: 90-92.

CHROMOSOMAL LOCATION

Genetic locus: MID1P1 (human) mapping to Xp11.4; Mid1p1 (mouse) mapping to X A1.1.

SOURCE

Mig12 (D-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of Mig12 of human origin.

RESEARCH USE

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

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-168607 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

Mig12 (D-20) is recommended for detection of Mig12 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg 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).

Mig12 (D-20) is also recommended for detection of Mig12 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for Mig12 siRNA (h): sc-91166, Mig12 siRNA (m): sc-149434, Mig12 shRNA Plasmid (h): sc-91166-SH, Mig12 shRNA Plasmid (m): sc-149434-SH, Mig12 shRNA (h) Lentiviral Particles: sc-91166-V and Mig12 shRNA (m) Lentiviral Particles: sc-149434-V.

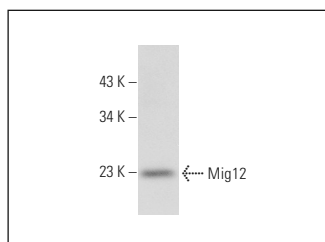
Molecular Weight of Mig12: 20 kDa.

Positive Controls: mouse liver extract: sc-2256.

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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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



Mig12 (D-20): sc-168607. Western blot analysis of Mig12 expression in mouse liver tissue extract.

STORAGE

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