Metaxin 1 (P-16): sc-324118



The Power to Question

BACKGROUND

Metaxin 1, also known as Mtx or Gcap6, is a 317 amino acid member of the Metaxin protein family. Localized to the mitochondrion outer membrane, Metaxin 1 is involved in the transport of proteins into the mitochondrion. Metaxin 1 is also believed to be essential for embryonic development. Metaxin 1 has been found to interact with other Metaxin family members, including Metaxin 2. Although ubiquitously expressed, highest levels of Metaxin 1 are present in kidney. The gene that encodes Metaxin 1 maps to human chromosome 1, which is the largest human chromosome, spanning about 260 million base pairs and making up 8% of the human genome.

REFERENCES

- Long, G.L., et al. 1996. Structure and organization of the human metaxin gene (MTX) and pseudogene. Genomics 33: 177-184.
- Collins, M. and Bornstein, P. 1996. SP1-binding elements, within the common metaxin-thrombospondin 3 intergenic region, participate in the regulation of the metaxin gene. Nucleic Acids Res. 24: 3661-3669.

CHROMOSOMAL LOCATION

Genetic locus: MTX1 (human) mapping to 1q22; Mtx1 (mouse) mapping to 3 F1.

SOURCE

Metaxin 1 (P-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of Metaxin 1 of mouse origin.

PRODUCT

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

Blocking peptide available for competition studies, sc-324118 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

Metaxin 1 (P-16) is recommended for detection of Metaxin 1 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); non cross-reactive with Metaxin 2 or Metaxin 3.

Metaxin 1 (P-16) is also recommended for detection of Metaxin 1 in additional species, including equine and bovine.

Suitable for use as control antibody for Metaxin 1 siRNA (h): sc-88250, Metaxin 1 siRNA (m): sc-149375, Metaxin 1 shRNA Plasmid (h): sc-88250-SH, Metaxin 1 shRNA Plasmid (m): sc-149375-SH, Metaxin 1 shRNA (h) Lentiviral Particles: sc-88250-V and Metaxin 1 shRNA (m) Lentiviral Particles: sc-149375-V.

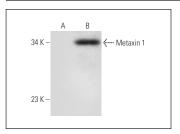
Molecular Weight of Metaxin 1: 35 kDa.

Positive Controls: Metaxin 1 (m): 293T Lysate: sc-121612.

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



Metaxin 1 (P-16): sc-324118. Western blot analysis of Metaxin 1 expression in non-transfected: sc-117752 (A) and mouse Metaxin 1 transfected: sc-121612 (B) 293T whole cell Ivsates.

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.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.



Try **Metaxin 1 (G-7):** sc-514469 or **Metaxin 1 (28):** sc-135989, our highly recommended monoclonal alternatives to Metaxin 1 (P-16).

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