



# Magmas (S-12): sc-107243

## BACKGROUND

Magmas, also known as TIMM16, is a 125 amino acid protein that localizes to the inner mitochondrial membrane and belongs to the TIM16/PAM16 family. Expressed ubiquitously, Magmas functions as a probable component of the PAM complex, a multi-protein structure that is required for the ATP-dependent translocation of peptide-containing proteins from the inner membrane into the mitochondrial matrix. Specifically, Magmas may be necessary for the regulation of the ATP-dependent nature of the PAM complex. The gene encoding Magmas maps to human chromosome 16, which encodes over 900 genes and comprises nearly 3% of the human genome. The GAN gene is located on chromosome 16 and, with mutation, may lead to giant axonal neuropathy, a nervous system disorder characterized by increasing malfunction with growth. The rare disorder Rubinstein-Taybi syndrome is also associated with chromosome 16, as is Crohn's disease, which is a gastrointestinal inflammatory condition.

## REFERENCES

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6. Gervasini, C., Castronovo, P., Bentivegna, A., Mottadelli, F., Faravelli, F., Giovannucci-Uzielli, M.L., Pessagno, A., Lucci-Cordisco, E., Pinto, A.M., Salvati, L., Selicorni, A., Tenconi, R., Neri, G. and Larizza, L. 2007. High frequency of mosaic CREBBP deletions in Rubinstein-Taybi syndrome patients and mapping of somatic and germ-line breakpoints. *Genomics* 90: 567-573.

## CHROMOSOMAL LOCATION

Genetic locus: Magmas (human) mapping to 16p13.3; Magmas (mouse) mapping to 16 A1.

## SOURCE

Magmas (S-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of Magmas 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-107243 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

Magmas (S-12) is recommended for detection of Magmas 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).

Suitable for use as control antibody for Magmas siRNA (h): sc-93268, Magmas siRNA (m): sc-149229, Magmas shRNA Plasmid (h): sc-93268-SH, Magmas shRNA Plasmid (m): sc-149229-SH, Magmas shRNA (h) Lentiviral Particles: sc-93268-V and Magmas shRNA (m) Lentiviral Particles: sc-149229-V.

Molecular Weight of Magmas: 13 kDa.

## 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.

## STORAGE

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

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.