

# MGA (L-14): sc-165016

## BACKGROUND

Myc regulation of cell proliferation and differentiation involves a family of related transcription factors. One such factor, Max, is an obligate heterodimeric partner for Myc and can also form heterodimers with proteins of the Mad family (Mad 1, Mxi1, Mad 3, Mad 4, Mnt and MGA). These dimers bind to the E-box sequence CACGTG in order to regulate cell growth, proliferation and apoptosis. MGA (Max gene associated), also known as MAD5 or MXD5 (Max dimerization protein 5), is a distinct member of the Mad family. Unlike Myc, Mad and Mnt proteins, MGA contains a Myc-like bHLHZip motif and a T-box DNA-binding domain. This suggests that MGA is capable of regulating the transcription of both Max-network and T-box target genes. In addition, MGA can function as both a transcriptional repressor and transcriptional activator. MGA is a widely expressed protein and a putative Myc oncoprotein antagonist.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: MGA (human) mapping to 15q15.1; Mga (mouse) mapping to 2 E5.

## SOURCE

MGA (L-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of MGA 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-165016 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

MGA (L-14) is recommended for detection of MGA 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).

MGA (L-14) is also recommended for detection of MGA in additional species, including equine, canine and bovine.

Suitable for use as control antibody for MGA siRNA (h): sc-89945, MGA siRNA (m): sc-149414, MGA shRNA Plasmid (h): sc-89945-SH, MGA shRNA Plasmid (m): sc-149414-SH, MGA shRNA (h) Lentiviral Particles: sc-89945-V and MGA shRNA (m) Lentiviral Particles: sc-149414-V.

Molecular Weight of MGA: 333 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.

## RESEARCH USE

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

## PROTOCOLS

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


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Try **MGA (MGA6A4H5): sc-81105**, our highly recommended monoclonal alternative to MGA (L-14).