

# Mxi1 (H-40): sc-28700

## BACKGROUND

It is now well established that 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 at least four related proteins designated Mad 1, Mxi1 (i.e., Mad 2), Mad 3 and Mad 4. Like Mad 1 and Mxi1, association of Mad 3 and Mad 4 with Max results in transcriptional repression. Both Myc and the Mad proteins have short half-lives and their synthesis is tightly regulated, while Max expression is constitutive and relatively stable. Two related mammalian cDNAs have been identified and shown to encode Mad-binding proteins. Both possess sequence homology with the yeast transcription repressor Sin3 including four conserved paired amphipathic helix (PAH) domains. mSin3A and mSin3B specifically interact with the Mad proteins via their second paired amphipathic helix domain (PAH2). It has been suggested that Mad-Max heterodimers repress transcription by tethering mSin3 to DNA as corepressors.

## CHROMOSOMAL LOCATION

Genetic locus: MXI1 (human) mapping to 10q25.2; Mxi1 (mouse) mapping to 19 D2.

## SOURCE

Mxi1 (H-40) is a rabbit polyclonal antibody raised against amino acids 31-70 mapping near the N-terminus of Mxi1 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. Also available as TransCruz reagent for Gel Supershift and ChIP applications, sc-28700 X, 200 µg/0.1 ml.

## APPLICATIONS

Mxi1 (H-40) is recommended for detection of Max interacting protein 1 (also designated Mad 2) 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).

Mxi1 (H-40) is also recommended for detection of Max interacting protein 1 (also designated Mad 2) in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for Mxi1 siRNA (h): sc-35835, Mxi1 siRNA (m): sc-35836, Mxi1 shRNA Plasmid (h): sc-35835-SH, Mxi1 shRNA Plasmid (m): sc-35836-SH, Mxi1 shRNA (h) Lentiviral Particles: sc-35835-V and Mxi1 shRNA (m) Lentiviral Particles: sc-35836-V.

Mxi1 (H-40) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

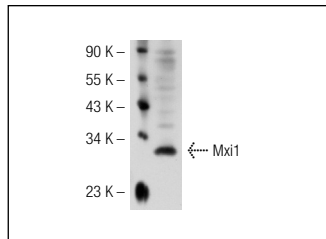
Molecular Weight of Mxi1 isoforms: 26/22/33/21 kDa.

Positive Controls: U-937 cell lysate: sc-2239, IMR-32 cell lysate: sc-2409 or K-562 whole cell lysate: sc-2203.

## RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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 goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

## DATA



Mxi1 (H-40): sc-28700. Western blot analysis of Mxi1 expression in U-937 whole cell lysate.

## 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 **Mxi1 (MXI1C2a): sc-130627**, our highly recommended monoclonal alternative to Mxi1 (H-40).