

# EMID1 (K-12): sc-86431

## BACKGROUND

EMID1 (EMI domain containing 1) is a 441 amino acid secreted protein that contains one collagen-like domain and one EMI domain. The EMI domain contains seven conserved cysteines that may mediate dimerization. The Emid1 mouse gene contains 15 exons and spans 54 kb. Existing as three alternatively spliced isoforms, the EMID1 gene is conserved in chimpanzee, canine, bovine, mouse, rat, chicken and zebrafish, and maps to human chromosome 22q12.2. Chromosome 22 contains over 500 genes and about 49 million bases. Being the second smallest human chromosome 22, contains a surprising variety of interesting genes. Phelan-McDermid syndrome, Neurofibromatosis type 2 and autism are associated with chromosome 22. A schizophrenia susceptibility locus has been identified on chromosome 22 and studies show that 22q12.2 deletion symptoms include a high incidence of schizophrenia.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: EMID1 (human) mapping to 22q12.2; Emid1 (mouse) mapping to 11 A1.

## SOURCE

EMID1 (K-12) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping within an internal region of EMID1 of human origin.

## PRODUCT

Each vial contains 100 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-86431 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

EMID1 (K-12) is recommended for detection of EMID1 of mouse 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).

EMID1 (K-12) is also recommended for detection of EMID1 in additional species, including porcine.

Suitable for use as control antibody for EMID1 siRNA (h): sc-77270, EMID1 siRNA (m): sc-144640, EMID1 shRNA Plasmid (h): sc-77270-SH, EMID1 shRNA Plasmid (m): sc-144640-SH, EMID1 shRNA (h) Lentiviral Particles: sc-77270-V and EMID1 shRNA (m) Lentiviral Particles: sc-144640-V.

Molecular Weight of EMID1: 45 kDa.

## 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<sup>™</sup> compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker<sup>™</sup> Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) 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<sup>™</sup> 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.