

## DEME-6 (N-15): sc-242570

### BACKGROUND

The tetratricopeptide repeat (TPR) motif is a degenerate 34 amino acid sequence found in many proteins and acts to mediate protein-protein interactions in various pathways. At the sequence level, there can be up to 16 tandem TPR repeats, each of which has a helix-turn-helix shape that stacks on other TPR repeats to achieve ligand binding specificity. DEME-6 (Differentially expressed in MCF7 with estradiol protein 6), also known as Tetratricopeptide repeat protein 39A, is a 613 amino acid protein that contains 3 TPR repeats and exists as 4 isoforms. The gene encoding DEME-6 maps to human chromosome 1, the largest human chromosome which spans about 260 million base pairs and makes up 8% of the human genome. Other notable genes located on chromosome 1 include LMNA, which is associated with the rare aging disease Hutchinson-Gilford progeria, and the MUTYH gene, which is partially responsible for familial adenomatous polyposis. Stickler syndrome, Parkinsons, Gaucher disease and Usher syndrome.

### REFERENCES

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8. Hennah, W., et al. 2006. Genes and schizophrenia: beyond schizophrenia: the role of DISC-1 in major mental illness. *Schizophr. Bull.* 32: 409-416.
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### CHROMOSOMAL LOCATION

Genetic locus: TTC39A (human) mapping to 1p32.3; Ttc39a (mouse) mapping to 4 C7.

### RESEARCH USE

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

### SOURCE

DEME-6 (N-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of DEME-6 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-242570 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

### APPLICATIONS

DEME-6 (N-15) is recommended for detection of DEME-6 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).

DEME-6 (N-15) is also recommended for detection of DEME-6 in additional species, including bovine and porcine.

Suitable for use as control antibody for DEME-6 siRNA (h): sc-88791, DEME-6 siRNA (m): sc-142993, DEME-6 shRNA Plasmid (h): sc-88791-SH, DEME-6 shRNA Plasmid (m): sc-142993-SH, DEME-6 shRNA (h) Lentiviral Particles: sc-88791-V and DEME-6 shRNA (m) Lentiviral Particles: sc-142993-V.

Molecular Weight of DEME-6 isoforms 1/2/3/4: 70/25/46/67 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.