

TMEM79 (N-16): sc-244449

BACKGROUND

TMEM79 (transmembrane protein 79) is a 175 amino acid protein encoded by a gene mapping to human chromosome 1. Chromosome 1 is the largest human chromosome spanning about 260 million base pairs and making up 8% of the human genome. There are about 3,000 genes on chromosome 1, and considering the great number of genes there are also a large number of diseases associated with chromosome 1. Notably, the rare aging disease Hutchinson-Gilford progeria is associated with the LMNA gene which encodes lamin A. When defective, the LMNA gene product can build up in the nucleus and cause characteristic nuclear blebs. The mechanism of rapidly enhanced aging is unclear and is a topic of continuing exploration. The MUTYH gene is located on chromosome 1 and is partially responsible for familial adenomatous polyposis. Stickler syndrome, Parkinsons, Gaucher disease and Usher syndrome are also associated with chromosome 1. A breakpoint has been identified in 1q which disrupts the DISC1 gene and is linked to schizophrenia. Aberrations in chromosome 1 are found in a variety of cancers including head and neck cancer, malignant melanoma and multiple myeloma.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: TMEM79 (human) mapping to 1q22; Tmem79 (mouse) mapping to 3 F1.

SOURCE

TMEM79 (N-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of TMEM79 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-244449 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

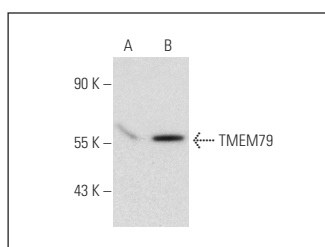
TMEM79 (N-16) is recommended for detection of TMEM79 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); non cross-reactive with other TMEM family members.

Suitable for use as control antibody for TMEM79 siRNA (h): sc-78662, TMEM79 siRNA (m): sc-154499, TMEM79 shRNA Plasmid (h): sc-78662-SH, TMEM79 shRNA Plasmid (m): sc-154499-SH, TMEM79 shRNA (h) Lentiviral Particles: sc-78662-V and TMEM79 shRNA (m) Lentiviral Particles: sc-154499-V.

Molecular Weight of TMEM79: 44 kDa.

Positive Controls: TMEM79 (m): 293T Lysate: sc-124188.

DATA



TMEM79 (N-16): sc-244449. Western blot analysis of TMEM79 expression in non-transfected: sc-117752 (A) and mouse TMEM79 transfected: sc-124188 (B) 293T whole cell lysates.

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.