SANTA CRUZ BIOTECHNOLOGY, INC.

TMEM86A (N-13): sc-139093

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

TMEM86A (transmembrane protein 86A) is a 220 amino acid protein encoded by a gene mapping to human chromosome 11. With approximately 135 million base pairs and 1,400 genes, chromosome 11 makes up around 4% of human genomic DNA and is considered a gene and disease association dense chromosome. The chromosome 11 encoded Atm gene is important for regulation of cell cycle arrest and apoptosis following double strand DNA breaks. Atm mutation leads to the disorder known as ataxia-telangiectasia. The blood disorders Sickle cell anemia and β thalassemia are caused by HBB gene mutations. Wilms' tumors, WAGR syndrome and Denys-Drash syndrome are associated with mutations of the WT1 gene. Jervell and Lange-Nielsen syndrome, Jacobsen syndrome, Niemann-Pick disease, hereditary angioedema and Smith-Lemli-Opitz syndrome are also associated with defects in chromosome 11.

CHROMOSOMAL LOCATION

Genetic locus: TMEM86A (human) mapping to 11p15.1; Tmem86a (mouse) mapping to 7 B4.

SOURCE

TMEM86A (N-13) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping at the N-terminus of TMEM86A 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-139093 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

APPLICATIONS

TMEM86A (N-13) is recommended for detection of TMEM86A of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:50-1:500), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:25, dilution range 1:25-1:250) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); non cross-reactive with TMEM86B.

TMEM86A (N-13) is also recommended for detection of TMEM86A in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for TMEM86A siRNA (h): sc-96455, TMEM86A siRNA (m): sc-154504, TMEM86A shRNA Plasmid (h): sc-96455-SH, TMEM86A shRNA Plasmid (m): sc-154504-SH, TMEM86A shRNA (h) Lentiviral Particles: sc-96455-V and TMEM86A shRNA (m) Lentiviral Particles: sc-154504-V.

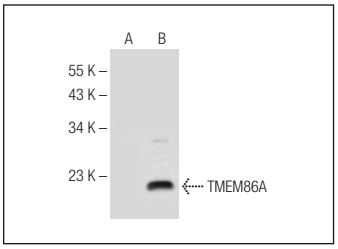
Molecular Weight of TMEM86A: 26 kDa.

Positive Controls: TMEM86A (h): 293T Lysate: sc-115412.

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



TMEM86A (N-13): sc-139093. Western blot analysis of TMEM86A expression in non-transfected: sc-117752 (**A**) and human TMEM86A transfected: sc-115412 (**B**) 293T whole cell lysates.

RESEARCH USE

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

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.

MONOS Satisfaction Guaranteed

Try **TMEM86A (F-1): sc-390329**, our highly recommended monoclonal alternative to TMEM86A (N-13).