

# TMEM154 (V-14): sc-139190

## BACKGROUND

TMEM154 is a 128 amino acid protein encoded by a gene mapping to human chromosome 4. Representing approximately 6% of the human genome, chromosome 4 contains nearly 900 genes. Notably, the Huntingtin gene, which is found to encode an expanded glutamine tract in cases of Huntington's disease, is on chromosome 4. FGFR-3 is also encoded on chromosome 4 and has been associated with thanatophoric dwarfism, achondroplasia, Muenke syndrome and bladder cancer. Chromosome 4 is also tied to Ellis-van Creveld syndrome, methylmalonic acidemia and polycystic kidney disease. Chromosome 4 reportedly contains the largest gene deserts (regions of the genome with no protein encoding genes) and has one of the two lowest recombination frequencies of the human chromosomes.

## CHROMOSOMAL LOCATION

Genetic locus: TMEM154 (human) mapping to 4q31.3; Tmem154 (mouse) mapping to 3 F1.

## SOURCE

TMEM154 (V-14) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping within a cytoplasmic domain of TMEM154 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-139190 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

TMEM154 (V-14) is recommended for detection of TMEM154 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 other TMEM family members.

TMEM154 (V-14) is also recommended for detection of TMEM154 in additional species, including canine, bovine and porcine.

Suitable for use as control antibody for TMEM154 siRNA (h): sc-88911, TMEM154 siRNA (m): sc-154386, TMEM154 shRNA Plasmid (h): sc-88911-SH, TMEM154 shRNA Plasmid (m): sc-154386-SH, TMEM154 shRNA (h) Lentiviral Particles: sc-88911-V and TMEM154 shRNA (m) Lentiviral Particles: sc-154386-V.

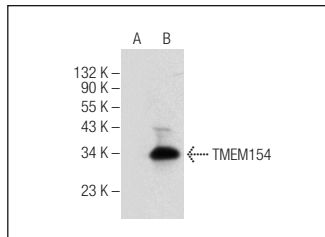
Molecular Weight of TMEM154: 20 kDa.

Positive Controls: TMEM154 (m): 293T Lysate: sc-124125, human liver tissue extract or human testis tissue extract.

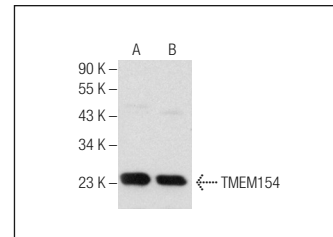
## RECOMMENDED SECONDARY REAGENTS

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



TMEM154 (V-14): sc-139190. Western blot analysis of TMEM154 expression in non-transfected: sc-117752 (A) and mouse TMEM154 transfected: sc-124125 (B) 293T whole cell lysates.



TMEM154 (V-14): sc-139190. Western blot analysis of TMEM154 expression in human liver (A) and human testis (B) tissue extracts.

## 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.



Try **TMEM154 (H-11): sc-398802** or **TMEM154 (F-8): sc-398803**, our highly recommended monoclonal alternatives to TMEM154 (V-14).