

# TMEM8C (G-12): sc-244459

## BACKGROUND

TMEM8C (transmembrane protein 8C), also known as TMEM226, is a 221 amino acid multi-pass membrane protein that belongs to the TMEM8 family. The gene encoding TMEM8C maps to human chromosome 9, which houses over 900 genes and comprises nearly 4% of the human genome. Hereditary hemorrhagic telangiectasia, which is characterized by harmful vascular defects, and familial dysautonomia, are both associated with chromosome 9. Notably, chromosome 9 encompasses the largest interferon family gene cluster. Interferons (IFNs)- $\alpha$  and - $\beta$  are cytokines that are widely known to induce potent antiviral activity. IFN- $\alpha$  and - $\beta$  exert a variety of other biological effects, including antitumor and immunomodulatory activities and are increasingly used clinically to treat a range of malignancies, myelodysplasias and autoimmune diseases.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: TMEM8C (human) mapping to 9q34.2; Tmem8c (mouse) mapping to 2 A3.

## SOURCE

TMEM8C (G-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of TMEM8C of human origin.

## STORAGE

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

## PRODUCT

Each vial contains 200  $\mu$ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-244459 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

TMEM8C (G-12) is recommended for detection of TMEM8C 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); non cross-reactive with other TMEM family members.

TMEM8C (G-12) is also recommended for detection of TMEM8C in additional species, including equine and avian.

Suitable for use as control antibody for TMEM8C siRNA (m): sc-108138, TMEM8C shRNA Plasmid (m): sc-108138-SH and TMEM8C shRNA (m) Lentiviral Particles: sc-108138-V.

Molecular Weight of TMEM8C: 25 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.

## 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.