

# TMEM147 (L-12): sc-138814

## BACKGROUND

TMEM147 (transmembrane protein 147), also known as ; NIFIE 14, is a 224 amino acid protein encoded by a gene mapping to human chromosome 19. Consisting of around 63 million bases with over 1,400 genes, chromosome 19 makes up over 2% of human genomic DNA. Chromosome 19 includes a diversity of interesting genes and is recognized for having the greatest gene density of the human chromosomes. It is the genetic home for a number of immunoglobulin superfamily members including the killer cell and leukocyte Ig-like receptors, a number of ICAMs, the CEACAM and PSG family, and Fcγ receptors. Key genes for eye color and hair color also map to chromosome 19. Peutz-Jeghers syndrome, spinocerebellar ataxia type 6, the stroke disorder CADASIL, hypercholesterolemia and Insulin-dependent diabetes have been linked to chromosome 19. Translocations with chromosome 19 and chromosome 14 can be seen in some lymphoproliferative disorders and typically involve the proto-oncogene BCL3.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: TMEM147 (human) mapping to 19q13.12; Tmem147 (mouse) mapping to 7 B1.

## RESEARCH USE

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

## SOURCE

TMEM147 (L-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of TMEM147 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-138814 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

TMEM147 (L-12) is recommended for detection of TMEM147 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.

TMEM147 (L-12) is also recommended for detection of TMEM147 in additional species, including equine, canine and bovine.

Suitable for use as control antibody for TMEM147 siRNA (h): sc-97517, TMEM147 siRNA (m): sc-154380, TMEM147 shRNA Plasmid (h): sc-97517-SH, TMEM147 shRNA Plasmid (m): sc-154380-SH, TMEM147 shRNA (h) Lentiviral Particles: sc-97517-V and TMEM147 shRNA (m) Lentiviral Particles: sc-154380-V.

Molecular Weight of TMEM147: 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.

## 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.