

TMPRSS11F (E-20): sc-249054

BACKGROUND

TMPRSS11F (transmembrane protease serine 11F), also known as airway trypsin-like protease 4, is a 438 amino acid single-pass type II membrane protein that belongs to the peptidase S1 family. TMPRSS11F contains one peptidase S1 domain, one SEA domain and most likely acts as a serine protease. The gene that encodes TMPRSS11F consists of around 76,683 bases and maps to human chromosome 4q13.2. Chromosome 4 represents approximately 6% of the human genome and contains nearly 900 genes. Notably, the Huntington gene, which is found to encode an expanded glutamine tract in cases of Huntington's disease, is encoded by a gene that maps to chromosome 4. FGFR-3 is also encoded by a gene located 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.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: TMPRSS11F (human) mapping to 4q13.2; Tmprss11f (mouse) mapping to 5 E1.

SOURCE

TMPRSS11F (E-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an extracellular domain of TMPRSS11F 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-249054 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

TMPRSS11F (E-20) is recommended for detection of TMPRSS11F 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 TMPRSS11 family members.

TMPRSS11F (E-20) is also recommended for detection of TMPRSS11F in additional species, including equine and canine.

Suitable for use as control antibody for TMPRSS11F siRNA (h): sc-89084, TMPRSS11F siRNA (m): sc-154524, TMPRSS11F shRNA Plasmid (h): sc-89084-SH, TMPRSS11F shRNA Plasmid (m): sc-154524-SH, TMPRSS11F shRNA (h) Lentiviral Particles: sc-89084-V and TMPRSS11F shRNA (m) Lentiviral Particles: sc-154524-V.

Molecular Weight of TMPRSS11F: 49 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.

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.