SANTA CRUZ BIOTECHNOLOGY, INC.

TMPRSS11D (S-12): sc-104707



BACKGROUND

TMPRSS11D (transmembrane protease, serine 11D), also known as HAT, is a 418 amino acid single-pass type II membrane protein that contains one SEA domain and one peptidase S1 domain. Expressed in bronchi and trachea, TMPRSS11D functions as a monomer that cleaves the C-terminal side of arginine residues at the P1 position of certain peptides and, via this catalytic activity, plays a role in the host defense system. TMPRSS11D is inhibited by diisopropyl fluorophosphate, leupeptin, antipain and aprotinin and is subject to posttranslational cleavage which results in the formation of an active, secreted peptide. The gene encoding TMPRSS11D maps to human chromosome 4, which encodes nearly 6% of the human genome and has the largest gene deserts (regions of the genome with no protein encoding genes) of all of the human chromosomes.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: TMPRSS11D (human) mapping to 4q13.2; Tmprss11d (mouse) mapping to 5 E1.

SOURCE

TMPRSS11D (S-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an extracellular domain of TMPRSS11D of human origin.

PRODUCT

Each vial contains 200 µg lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-104707 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

TMPRSS11D (S-12) is recommended for detection of TMPRSS11D 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).

TMPRSS11D (S-12) is also recommended for detection of TMPRSS11D in additional species, including equine and canine.

Suitable for use as control antibody for TMPRSS11D siRNA (h): sc-89121, TMPRSS11D siRNA (m): sc-106622, TMPRSS11D shRNA Plasmid (h): sc-89121-SH, TMPRSS11D shRNA Plasmid (m): sc-106622-SH, TMPRSS11D shRNA (h) Lentiviral Particles: sc-89121-V and TMPRSS11D shRNA (m) Lentiviral Particles: sc-106622-V.

Molecular Weight of TMPRSS11D: 46 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.