

# TMPRSS11A (V-16): sc-165756

## BACKGROUND

TMPRSS11A (transmembrane protease serine 11A), also known as ECRG1 (esophageal cancer-susceptibility gene 1 protein), HATL1 (airway trypsin-like protease 1) or HESP (epidermal type-II transmembrane serine protease), is a 421 amino acid single-pass type II membrane protein that belongs to the peptidase S1 family and exists as 2 alternatively spliced isoforms. TMPRSS11A contains one peptidase S1 domain, one SEA domain and may interact with Miz-1. As a probable serine protease, TMPRSS11A may play a role in cellular senescence. Over-expression of TMPRSS11A inhibits cell growth and induces G<sub>1</sub> cell cycle arrest. While expressed in esophagus, liver, colon and lung, TMPRSS11A is down-regulated in esophageal cancers. The gene that encodes TMPRSS11A consists of approximately 54,756 bases and maps to human chromosome 4q13.2.

## REFERENCES

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- Li, Y., et al. 2006. Identification of a novel polymorphism Arg290Gln of esophageal cancer related gene 1 (ECRG1) and its related risk to esophageal squamous cell carcinoma. *Carcinogenesis* 27: 798-802.
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- Bachmann, K., et al. 2009. Polymorphism Arg290Arg in esophageal-cancer-related gene 1 (ECRG1) is a prognostic factor for survival in esophageal cancer. *J. Gastrointest. Surg.* 13: 181-187.
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## CHROMOSOMAL LOCATION

Genetic locus: TMPRSS11A (human) mapping to 4q13.2.

## SOURCE

TMPRSS11A (V-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an extracellular domain of TMPRSS11A of human origin.

## RESEARCH USE

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

## 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-165756 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

TMPRSS11A (V-16) is recommended for detection of TMPRSS11A of 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).

Suitable for use as control antibody for TMPRSS11A siRNA (h): sc-89126, TMPRSS11A shRNA Plasmid (h): sc-89126-SH and TMPRSS11A shRNA (h) Lentiviral Particles: sc-89126-V.

Molecular Weight of TMPRSS11A isoforms: 48/47 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<sup>™</sup> compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker<sup>™</sup> 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<sup>™</sup> 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.