

PRSS16 (S-14): sc-169056

BACKGROUND

PRSS16, also known as serine protease 16 or TSSP (thymus-specific serine protease), is a 514 amino acid protein involved in the alternative antigen presenting pathway of T-cell positive selection. Localizing to lysosomal or endosomal cytoplasmic vesicles, PRSS16 is abundantly expressed in cortical thymic epithelial cells and is a member of the peptidase S28 family. The gene encoding PRSS16 maps to human chromosome 6, in a large histone gene cluster near the major histocompatibility complex (MHC) class I region. PRSS16 may also be linked to Insulin dependent diabetes mellitus (IDDM) susceptibility and autoimmunity.

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CHROMOSOMAL LOCATION

Genetic locus: PRSS16 (human) mapping to 6p22.1; Prss16 (mouse) mapping to 13 A3.1.

SOURCE

PRSS16 (S-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of PRSS16 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-169056 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

PRSS16 (S-14) is recommended for detection of PRSS16 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 PRSS family members.

PRSS16 (S-14) is also recommended for detection of PRSS16 in additional species, including equine and canine.

Suitable for use as control antibody for PRSS16 siRNA (h): sc-95229, PRSS16 siRNA (m): sc-152523, PRSS16 shRNA Plasmid (h): sc-95229-SH, PRSS16 shRNA Plasmid (m): sc-152523-SH, PRSS16 shRNA (h) Lentiviral Particles: sc-95229-V and PRSS16 shRNA (m) Lentiviral Particles: sc-152523-V.

Molecular Weight of PRSS16: 55 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.