

PRSS33 (P-13): sc-165296

BACKGROUND

PRSS33 (protease, serine, 33), also known as serine protease EOS, is a 280 amino acid secreted protein that belongs to the peptidase S1 family. Containing one peptidase S1 domain, PRSS33 has amidolytic activity and cleaves its targets before Arg residues. PRSS33 is primarily expressed in macrophages, with high levels of expression found in peripheral leukocytes, ovary, retina, spleen and stomach. Lower levels of expression occur in thymus, uterus, platelets and some brain tissues, including thalamus and fetal brain. PRSS33 gets upregulated by phorbol myristate acetate (PMA) and is encoded by a gene mapping to human chromosome 16p13.3 and mouse chromosome 17 A3.3.

REFERENCES

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- Wong, G.W. and Stevens, R.L. 2005. Identification of a subgroup of glycosylphosphatidylinositol-anchored tryptases. *Biochem. Biophys. Res. Commun.* 336: 579-584.
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CHROMOSOMAL LOCATION

Genetic locus: PRSS33 (human) mapping to 16p13.3; Prss33 (mouse) mapping to 17 A3.3.

SOURCE

PRSS33 (P-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of PRSS33 of human origin.

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.

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-165296 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

PRSS33 (P-13) is recommended for detection of PRSS33 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.

PRSS33 (P-13) is also recommended for detection of PRSS33 in additional species, including equine, bovine and porcine.

Suitable for use as control antibody for PRSS33 siRNA (h): sc-93242, PRSS33 siRNA (m): sc-152527, PRSS33 shRNA Plasmid (h): sc-93242-SH, PRSS33 shRNA Plasmid (m): sc-152527-SH, PRSS33 shRNA (h) Lentiviral Particles: sc-93242-V and PRSS33 shRNA (m) Lentiviral Particles: sc-152527-V.

Molecular Weight of PRSS33: 30 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.