

# SerpinA11 (N-18): sc-244113

## BACKGROUND

SerpinA11 (serpin peptidase inhibitor, clade A ( $\alpha$ -1 antiproteinase, antitrypsin), member 11) is a 422 amino acid secreted protein that belongs to the serpin family. In humans, SerpinA11 is part of a gene cluster, which spans over 370 kb on chromosome 14q32.1 and includes 10 additional members of the Serpin superfamily. All Serpin genes have a significant sequence similarity and most share a common gene structure with one untranslated exon and four coding exons. Accordingly, it has been proposed that members of the Serpin superfamily evolved from a common ancestral gene through a series of duplication events. The SerpinA11 protein exhibits a restricted expression pattern typical of many serpins: very high expression in normal liver, with more than 30-fold less expression in normal breast, prostate BPH (benign prostate hyperplasia) and breast tumor. The SerpinA11 gene is conserved in chimpanzee, canine, bovine, mouse and rat, and maps to human chromosome 14q32.13.

## REFERENCES

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## STORAGE

Store at 4° C, **\*\*DO NOT FREEZE\*\***. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

## CHROMOSOMAL LOCATION

Genetic locus: SERPINA11 (human) mapping to 14q32.13.

## SOURCE

SerpinA11 (N-18) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of SerpinA11 of human origin.

## PRODUCT

Each vial contains 200  $\mu$ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-244113 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

SerpinA11 (N-18) is recommended for detection of SerpinA11 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); non cross-reactive with other SerpinA family members.

Suitable for use as control antibody for SerpinA11 siRNA (h): sc-92433, SerpinA11 shRNA Plasmid (h): sc-92433-SH and SerpinA11 shRNA (h) Lentiviral Particles: sc-92433-V.

Molecular Weight of SerpinA11: 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™ 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.

## RESEARCH USE

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

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.