Background

The serine protease inhibitors (serpins) compose a superfamily of proteins with a diverse set of functions, including the control of blood coagulation, complement activation, programmed cell death and development. Serpins are secreted glycoproteins that contain a stretch of peptide that mimics a true substrate for a corresponding serine protease. Serpin A3k (serine protease inhibitor A3K), also known as contrapsin, SPI-2 or Mcm 2, is a 418 amino acid murine protein that inhibits trypsin-like proteases and belongs to the serpin family. Expressed in liver and secreted in plasma, Serpin A3k is encoded by a gene that maps to murine chromosome 12 E.

References


Chromosomal Location

Genetic locus: Serpin A3k (mouse) mapping to 12 E.

Source

Serpin A3k (K-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of Serpin A3k of mouse 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-162174 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

Storage

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

Applications

Serpin A3k (K-14) is recommended for detection of Serpin A3k of mouse origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], 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 Serpin A3 family members.

Suitable for use as control antibody for Serpin A3k siRNA (m): sc-153362, Serpin A3k shRNA Plasmid (m): sc-153362-SH and Serpin A3k shRNA (m) Lentiviral Particles: sc-153362-V.

Molecular Weight of Serpin A3k: 47 kDa.

Positive Controls: Serpin A3k (m): 293T Lysate: sc-123488.

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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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.

Data

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.

Serpin A3k (K-14): sc-162174. Western blot analysis of Serpin A3k expression in non-transfected: sc-117752 (A) and mouse Serpin A3k transfected: sc-123489 (B) 293T whole cell lysates.

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