

α -2 antiplasmin (P-19): sc-67511

BACKGROUND

The serine proteinase inhibitors (serpins) comprise 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. α -2 antiplasmin (also referred to as α -2-AP or α -2-plasmin inhibitor) is a member of the serpin family that inhibits plasmin. It is the most potent and rapidly acting of the plasmin inhibitors and is thought to play a key role in the regulation of fibrinolysis and degradation of various other proteins. α -2 antiplasmin interferes with the binding of plasminogen to Fibrin because lysine residues in its carboxy-terminal region compete with those in Fibrin. As plasmin degrades blood clots, impaired activity of α -2 antiplasmin leads to a bleeding tendency.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: SERPINF2 (human) mapping to 17p13.

SOURCE

α -2 antiplasmin (P-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of α -2 antiplasmin of human origin.

PRODUCT

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

Blocking peptide available for competition studies, sc-67511 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

α -2 antiplasmin (P-19) is recommended for detection of α -2 antiplasmin 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 α -2 antiplasmin siRNA (h): sc-61924, α -2 antiplasmin shRNA Plasmid (h): sc-61924-SH and α -2 antiplasmin shRNA (h) Lentiviral Particles: sc-61924-V.

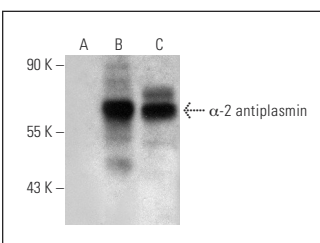
Molecular Weight of α -2 antiplasmin: 55 kDa.

Positive Controls: human liver extract: sc-363766 or K-562 whole cell lysate: sc-2203.

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.

DATA



α -2 antiplasmin (P-19): sc-67511. Western blot analysis of α -2 antiplasmin expression in non-transfected CHO (A) and human α -2 antiplasmin transfected CHO (B) whole cell lysates and human liver tissue extract (C).

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.