

α -2 antiplasmin (H-275): sc-292693

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 17p13.3; Serpinf2 (mouse) mapping to 11 B5.

SOURCE

α -2 antiplasmin (H-275) is a rabbit polyclonal antibody raised against amino acids 116-390 mapping within an internal region 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.

APPLICATIONS

α -2 antiplasmin (H-275) is recommended for detection of α -2 antiplasmin of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g 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).

α -2 antiplasmin (H-275) is also recommended for detection of α -2 antiplasmin in additional species, including equine, canine and bovine.

Suitable for use as control antibody for α -2 antiplasmin siRNA (h): sc-61924, α -2 antiplasmin siRNA (m): sc-61925, α -2 antiplasmin shRNA Plasmid (h): sc-61924-SH, α -2 antiplasmin shRNA Plasmid (m): sc-61925-SH, α -2 antiplasmin shRNA (h) Lentiviral Particles: sc-61924-V and α -2 antiplasmin shRNA (m) Lentiviral Particles: sc-61925-V.

Molecular Weight of α -2 antiplasmin: 55 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker[™] compatible goat anti-rabbit IgG-HRP: sc-2030 (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 goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (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.



Try α -2 antiplasmin (MAP25C3): sc-59642 or α -2 antiplasmin (C-7): sc-515771, our highly recommended monoclonal alternatives to α -2 antiplasmin (H-275).