

α -2 antiplasmin (SJ-19): sc-73659

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; Serpinf2 (mouse) mapping to 11 B5.

SOURCE

α -2 antiplasmin (SJ-19) is a rat monoclonal antibody raised against full length recombinant α -2 antiplasmin of mouse origin.

PRODUCT

Each vial contains 100 μ g IgG_{2b} in 1.0 ml of PBS with < 0.1% sodium azide and protein stabilizer.

APPLICATIONS

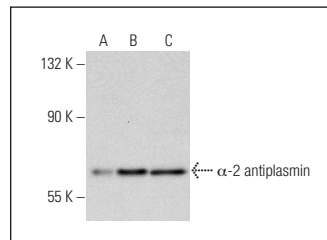
α -2 antiplasmin (SJ-19) is recommended for detection of α -2 antiplasmin of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)] and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); non cross-reactive with AAT, AACT or kallistatin of human origin or PAI-3, ATIII or HCII of mouse origin.

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.

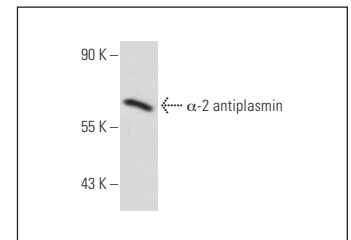
Molecular Weight of α -2 antiplasmin: 55 kDa.

Positive Controls: α -2 antiplasmin (m): 293T Lysate: sc-124904, K-562 whole cell lysate: sc-2203 or NIH/3T3 whole cell lysate: sc-2210.

DATA



α -2 antiplasmin (SJ-19): sc-73659. Western blot analysis of α -2 antiplasmin expression in non-transfected 293T: sc-117752 (A), mouse α -2 antiplasmin transfected 293T: sc-124904 (B) and NIH/3T3 (C) whole cell lysates.



α -2 antiplasmin (SJ-19): sc-73659. Western blot analysis of α -2 antiplasmin expression in K-562 whole cell lysate.

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 for detailed protocols and support products.