SANTA CRUZ BIOTECHNOLOGY, INC.

α-2 antiplasmin (m): 293T Lysate: sc-124904

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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STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

CHROMOSOMAL LOCATION

Genetic locus: Serpinf2 (mouse) mapping to 11 B5.

PRODUCT

α-2 antiplasmin (m): 293T Lysate represents a lysate of mouse α-2 antiplasmin transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

APPLICATIONS

α-2 antiplasmin (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive α-2 antiplasmin antibodies. Recommended use: 10-20 µl per lane.

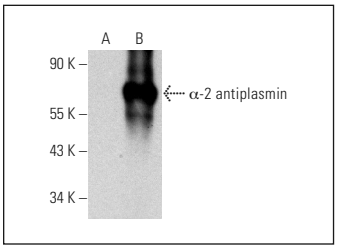
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

α-2 antiplasmin (MAP25C3): sc-59642 is recommended as a positive control antibody for Western Blot analysis of enhanced mouse α-2 antiplasmin expression in α-2 antiplasmin transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

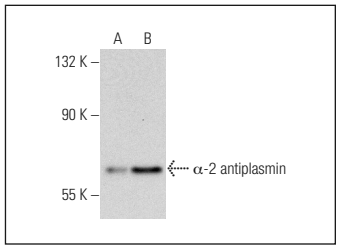
RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

DATA



α-2 antiplasmin (MAP25C3): sc-59642. Western blot analysis of α-2 antiplasmin expression in non-transfected: sc-117752 (**A**) and mouse α-2 antiplasmin transfected: sc-124904 (**B**) 293T whole cell lysates.



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

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.