

Adipsin (H-1): sc-271685

BACKGROUND

Adipsin is the mouse homolog of the previously described human complement Factor D, a serine protease, which is now designated human Adipsin. Human Adipsin is highly expressed in and secreted by adipose tissue, and it has also been found in monocytes and macrophages. Rodent Adipsin has only been detected in high levels in adipose tissue. It has been shown that complement factor B, when complexed with activated complement component C3, is cleaved by Adipsin. While low expression of Adipsin has been confirmed in obese mice with hypothalamic defects, this inverse correlation between Adipsin expression and obesity has not been demonstrated in humans.

REFERENCES

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5. Choy, L.N., et al. 1992. Adipsin and an endogenous pathway of complement from adipose cells. *J. Biol. Chem.* 267: 12736-12741.
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8. Searfoss, G.H., et al. 2003. Adipsin, a biomarker of gastrointestinal toxicity mediated by a functional γ -secretase inhibitor. *J. Biol. Chem.* 278: 46107-46116.
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CHROMOSOMAL LOCATION

Genetic locus: CFD (human) mapping to 19p13.3.

SOURCE

Adipsin (H-1) is a mouse monoclonal antibody raised against amino acids 152-206 mapping within an internal region of Adipsin of human origin.

PRODUCT

Each vial contains 200 μ g IgG₁ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

STORAGE

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

APPLICATIONS

Adipsin (H-1) is recommended for detection of Adipsin of human origin by Western Blotting (starting dilution 1:100, 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).

Suitable for use as control antibody for Adipsin siRNA (h): sc-29646, Adipsin shRNA Plasmid (h): sc-29646-SH and Adipsin shRNA (h) Lentiviral Particles: sc-29646-V.

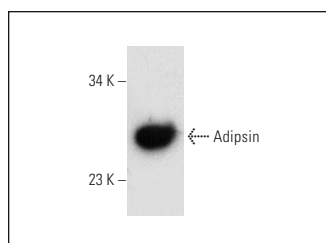
Molecular Weight of Adipsin: 28 kDa.

Positive Controls: NAMALWA cell lysate: sc-2234, Jurkat whole cell lysate: sc-2204 or THP-1 cell lysate: sc-2238.

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgG κ BP-HRP: sc-516102 or m-IgG κ 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. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use m-IgG κ BP-FITC: sc-516140 or m-IgG κ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

DATA



Adipsin (H-1): sc-271685. Western blot analysis of Adipsin expression in THP-1 whole cell lysate.

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.