SANTA CRUZ BIOTECHNOLOGY, INC.

Attractin (14): sc-135842



BACKGROUND

Mahogany (MG), originally identified as a protein involved in pigmentation, acts in conjunction with melanocortin receptors to suppress diet-induced obesity. Mahogany contains a single transmembrane domain and it is expressed in a broad range of tissues, including the hypothalamus and pigment cells. Mutations within the mahogany gene were shown to rescue agouti-lethalyellow mutant mice from obesity. The extracellular domain of mouse mahogany is the ortholog of the human protein Attractin. Attractin (also designated DPPT-L) is a human serum glycoprotein and is a member of the CUB family of cell adhesion and guidance proteins. Attractin is expressed on activated T cells and is released from the cells 48 to 72 hours after activation

REFERENCES

- Miller, K.A., Gunn, T.M., Carrasquillo, M.M., Lamoreux, M.L., Galbraith, D.B. and Barsh, G.S. 1997. Genetic studies of the mouse mutations mahogany and mahoganoid. Genetics 146: 1407-1415.
- Duke-Cohan, J.S., Gu, J., McLaughlin, D.F., Xu, Y., Freeman, G.J. and Schlossman, S.F. 1998. Attractin (DPPT-L), a member of the CUB family of cell adhesion and guidance proteins, is secreted by activated human T lymphocytes and modulates immune cell interactions. Proc. Natl. Acad. Sci. USA 95: 11336-11341.
- Dinulescu, D.M., Fan, W., Boston, B.A., McCall, K., Lamoreux, M.L., Moore, K.J., Montagno, J. and Cone, R.D. 1998. Mahogany (MG) stimulates feeding and increases basal metabolic rate independent of its suppression of agouti. Proc. Natl. Acad. Sci. USA 95: 12707-12712.
- Nagle, D.L., McGrail, S.H., Vitale, J., Woolf, E.A., Dussault, B.J., Jr., DiRocco, L., Holmgren, L., Montagno, J., Bork, P., Huszar, D., Fairchild-Huntress, V., Ge, P., Keilty, J., Ebeling, C., Baldini, L., Gilchrist, J., Burn, P., Carlson, G.A. and Moore, K.J. 1999. The mahogany protein is a receptor involved in suppression of obesity. Nature 398: 148-152.
- Gunn, T.M., Miller, K.A., He, L., Hyman, R.W., Davis, R.W., Azarani, A., Schlossman, S.F., Duke-Cohan, J.S. and Barsh, G.S. 1999. The mouse mahogany locus encodes a transmembrane form of human Attractin. Nature 398: 152-156.

CHROMOSOMAL LOCATION

Genetic locus: ATRN (human) mapping to 20p13.

SOURCE

Attractin (14) is a mouse monoclonal antibody raised against amino acids 184-383 of Attractin of human origin.

PRODUCT

Each vial contains 50 μ g lgG₁ in 0.5 ml of PBS with < 0.1% sodium azide, 0.1% gelatin, 20% glycerol and 0.04% stabilizer protein.

STORAGE

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

APPLICATIONS

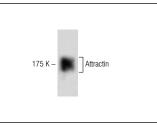
Attractin (14) is recommended for detection of Attractin of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)] and immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500).

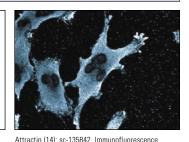
Suitable for use as control antibody for Attractin siRNA (h): sc-77343, Attractin shRNA Plasmid (h): sc-77343-SH and Attractin shRNA (h) Lentiviral Particles: sc-77343-V.

Molecular Weight of Attractin: 175 kDa.

Positive Controls: human plasma extract: sc-364374.

DATA





staining of human endothelial cells showing

cytoplasmic and membrane localization.

Attractin (14): sc-135842. Western blot analysis of Attractin expression in human plasma.

RESEARCH USE

For research use only, not for use in diagnostic procedures. Not for resale.

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.