



acrogranin (2A3C5): sc-81151

BACKGROUND

Acrogranin (also designated PC cell-derived growth factor (PCDGF), epithelin/granulin precursor or paraganulin) is a glycosylated protein originally purified from the highly tumorigenic, Insulin-independent mouse teratoma PC cell line. Acrogranin is a cysteine-rich molecule whose expression is essential for tumorigenicity in teratoma cells. Acrogranin is expressed in estrogen receptor-positive (ER+) human mammary MDA-MB-468 epithelial cells, human breast cancer MCF7 cells and human estrogen-responsive T-47D cells. Secreted acrogranin acts as an autocrine growth factor for breast carcinoma cells and over-expression may play an important role in human breast cancer. Acrogranin stimulates the growth of PC cells as well as 3T3 fibroblasts.

REFERENCES

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5. Lu, R. and Serrero, G. 1999. Stimulation of PC cell-derived growth factor (epithelin/granulin precursor) expression by estradiol in human breast cancer cells. *Biochem. Biophys. Res. Commun.* 256: 204-207.
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CHROMOSOMAL LOCATION

Genetic locus: GRN (human) mapping to 17q21.32.

SOURCE

acrogranin (2A3C5) is a mouse monoclonal antibody raised against a recombinant protein corresponding to amino acids 434-573 of acrogranin of human origin.

RESEARCH USE

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

PRODUCT

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

APPLICATIONS

acrogranin (2A3C5) is recommended for detection of acrogranin of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000).

Suitable for use as control antibody for acrogranin siRNA (h): sc-39261, acrogranin shRNA Plasmid (h): sc-39261-SH and acrogranin shRNA (h) Lenti-viral Particles: sc-39261-V.

Molecular Weight of acrogranin: 88 kDa.

Positive Controls: MDA-MB-468 cell lysate: sc-2282 or MCF7 whole cell lysate: sc-2206.

STORAGE

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

PROTOCOLS

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