

acrogranin (M-12): sc-11348

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 overexpression may play an important role in human breast cancer. Acrogranin stimulates the growth of PC cells as well as 3T3 fibroblasts.

CHROMOSOMAL LOCATION

Genetic locus: GRN (human) mapping to 17q21.31; Grn (mouse) mapping to 11 D.

SOURCE

acrogranin (M-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of PCDGF of mouse origin.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-11348 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

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.

APPLICATIONS

acrogranin (M-12) is recommended for detection of precursor and mature acrogranin of mouse, rat and human origin; paraganulin of human origin; granulin 1, granulin 2 and granulin 5-7 of mouse and human origin; and granulin 7 of rat origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg 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 acrogranin siRNA (h): sc-39261, acrogranin siRNA (m): sc-39262, acrogranin shRNA Plasmid (h): sc-39261-SH, acrogranin shRNA Plasmid (m): sc-39262-SH, acrogranin shRNA (h) Lentiviral Particles: sc-39261-V and acrogranin shRNA (m) Lentiviral Particles: sc-39262-V.

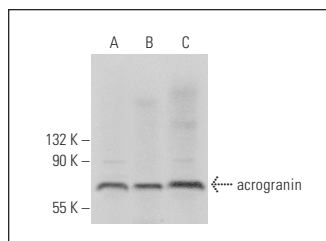
Molecular Weight of acrogranin: 88 kDa.

Positive Controls: K-562 whole cell lysate: sc-2203, Daudi cell lysate: sc-2415 or THP-1 cell lysate: sc-2238.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 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 donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



acrogranin (M-12): sc-11348. Western blot analysis of acrogranin expression in K-562 (A), Daudi (B) and THP-1 (C) whole cell lysates.

PROTOCOLS

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

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Try **acrogranin (C-11): sc-377036** or **acrogranin (2A3C5): sc-81151**, our highly recommended monoclonal alternatives to acrogranin (M-12).