



Mammaglobin B (H-47): sc-134773

BACKGROUND

Secretoglobins (Lipophilins, Mammaglobins) are small secreted proteins of endocrine-responsive organs and mucosal epithelia that form multimeric complexes and correlate with the development of various human cancers. Lipophilin A (LIPA, LPHA, secretoglobin, family 1D, member 1; SCGB1D1) and Lipophilin B (LIPB, LPHB, secretoglobin, family 1D, member 2; SCGB1D2) are orthologs of prostatein (estramustine-binding protein), the major secretory glycoprotein of the rat ventral prostate gland. Lipophilin A is a component of a heterodimeric molecule present in human tears. Lipophilin B mRNA can be overexpressed in breast tumors and shows a high degree of correlation with the mRNA expression profile of mammaglobin. Mammaglobin A (MGB1, secretoglobin, family 2A, member 2; SCGB2A2) and Mammaglobin B (MGB2, lipophilin C, LPHC, UGB3, SCGB2A1) histological detection in breast tissue is a reliable diagnostic marker for breast tumors.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: SCGB2A1 (human) mapping to 11q13.

SOURCE

Mammaglobin B (H-47) is a rabbit polyclonal antibody raised against amino acids 49-95 mapping at the C-terminus of Mammaglobin B of human origin.

PRODUCT

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

APPLICATIONS

Mammaglobin B (H-47) is recommended for detection of Mammaglobin B of human 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 Mammaglobin B siRNA (h): sc-45749, Mammaglobin B shRNA Plasmid (h): sc-45749-SH and Mammaglobin B shRNA (h) Lentiviral Particles: sc-45749-V.

Molecular Weight of Mammaglobin B: 9 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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 goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

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.

PROTOCOLS

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