Mammaglobin A (C-16): sc-48328



The Power to Question

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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- 4. Carter, D., et al. 2002. Purification and characterization of the Mammaglobin/Lipophilin B complex, a promising diagnostic marker for breast cancer. Biochemistry 41: 6714-6722.
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- Sjodin, A., et al. 2005. Secretoglobins in the human pituitary: high expression of Lipophilin B and its downregulation in pituitary adenomas. Acta Neuropathol. 109: 381-386.

CHROMOSOMAL LOCATION

Genetic locus: SCGB2A2 (human) mapping to 11q12.3.

SOURCE

Mammaglobin A (C-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of Mammaglobin A of human origin.

STORAGE

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

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-48328 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

Mammaglobin A (C-16) is recommended for detection of Mammaglobin A of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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 A siRNA (h): sc-45747, Mammaglobin A shRNA Plasmid (h): sc-45747-SH and Mammaglobin A shRNA (h) Lentiviral Particles: sc-45747-V.

Molecular Weight of Mammaglobin A: 18 kDa.

Positive Controls: ZR-75-1 cell lysate: sc-2241.

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) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

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.



Try Mammaglobin A (F-5): sc-515195 or Mammaglobin A (D-7): sc-398405, our highly recommended monoclonal alternatives to Mammaglobin A (C-16).

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