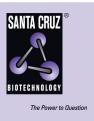
SANTA CRUZ BIOTECHNOLOGY, INC.

Mammaglobin B (S-18): sc-48332



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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- Gow, A. 1997. Redefining the Lipophilin family of proteolipid proteins. J Neurosci. Res. 50: 659-664.
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- 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.
- Carter, D., et al. 2003. Serum antibodies to Lipophilin B detected in late stage breast cancer patients. Clin. Cancer Res. 9: 749-754.
- Cerveira, N., et al. 2004. Highly sensitive detection of the MGB1 transcript (Mammaglobin) in the peripheral blood of breast cancer patients. Int. J. Cancer 108: 592-595.
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CHROMOSOMAL LOCATION

Genetic locus: SCGB2A1 (human) mapping to 11q12.3.

SOURCE

Mammaglobin B (S-18) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of Mammaglobin B of human origin.

STORAGE

Store at 4° C, **D0 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.

PRODUCT

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

Blocking peptide available for competition studies, sc-48332 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

Mammaglobin B (S-18) is recommended for detection of Mammaglobin B 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), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

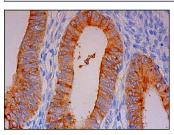
Suitable for use as control antibody for Mammaglobin B siRNA (h): sc-45749, Mammaglobin B shRNA Plasmid (h): sc-45749-SH and Mammaglobin B shRNA (h) Lentiviral Particles: sc-45749-V.

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 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) Immunofluo-rescence: 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. 3) Immunohistochemistry: use ImmunoCruz™: sc-2053 or ABC: sc-2023 goat IgG Staining Systems.

DATA



Mammaglobin B (S-18): sc-48332. Immunoperoxidase staining of formalin fixed, paraffin-embedded human premenopausal uterus tissue showing cytoplasmic staining of glandular cells.

PROTOCOLS

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