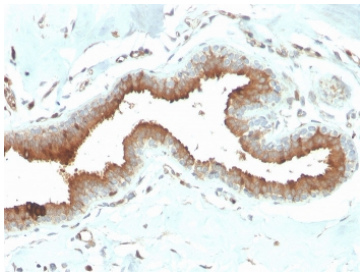
Mammaglobin Antibody Mouse Monoclonal MGB/2704 / Mammaglobin A Antibody [clone MGB/2704] (V8491)

Catalog No.	Formulation	Size
V8491-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V8491-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V8491SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	MGB/2704
Purity	Protein G affinity chromatography
UniProt	Q13296
Localization	Cytoplasm
Applications	Immunohistochemistry (FFPE) : 1-2ug/ml for 30 minutes at RT
Limitations	This Mammaglobin antibody is available for research use only.



Mammaglobin Antibody Mouse Monoclonal MGB/2704 immunohistochemistry of human breast carcinoma. FFPE human breast carcinoma tissue was stained with Mammaglobin Antibody Mouse Monoclonal (clone MGB/2704). HRP-DAB brown chromogenic signal highlights cytoplasmic staining in tumor epithelial cells lining glandular structures, consistent with Mammaglobin A / SCGB2A2 expression in breast carcinoma cells, while surrounding stromal cells and connective tissue show minimal staining. Heat-induced epitope retrieval was performed by boiling tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 minutes followed by cooling prior to staining.

Description

Mammaglobin A (SCGB2A2) is a secreted epithelial glycoprotein encoded by the SCGB2A2 gene and belongs to the secretoglobin family of small secreted proteins associated with mammary epithelial differentiation. Mammaglobin Antibody Mouse Monoclonal MGB/2704 recognizes Mammaglobin A / SCGB2A2 and targets a protein widely studied as a marker of mammary epithelial cells and breast carcinoma.

Mammaglobin antibody, also referred to as Mammaglobin A antibody or SCGB2A2 antibody in the literature, detects a protein predominantly produced by luminal epithelial cells of the mammary gland. Mammaglobin A is secreted into glandular lumens as part of normal epithelial secretory activity within mammary tissue. Because of this relatively restricted tissue distribution, Mammaglobin expression has been extensively examined in studies of mammary gland biology and breast tumor origin.

Structurally, Mammaglobin A contains conserved cysteine residues characteristic of secretoglobin family proteins that contribute to stable folding within epithelial secretory pathways. As a secreted epithelial protein, Mammaglobin is typically detected within the cytoplasm of mammary epithelial cells and may also be present within glandular luminal secretions depending on tissue architecture and experimental preparation. These localization features reflect the protein's role in epithelial secretory processes and glandular differentiation.

Expression of Mammaglobin A is frequently observed in breast epithelial cells and breast carcinoma specimens, where it reflects the differentiated state of mammary epithelial tumor cells. In breast tumors, Mammaglobin expression is often detected in epithelial tumor cell populations forming glandular structures, while surrounding stromal cells and non-epithelial tissue elements generally show little to no staining. These expression patterns have made Mammaglobin a valuable protein marker in breast cancer research and epithelial tumor characterization.

Mammaglobin Antibody Mouse Monoclonal (clone MGB/2704) is developed to detect Mammaglobin A / SCGB2A2 in protein expression studies involving mammary epithelial tissues and breast cancer models. Antibodies targeting Mammaglobin are widely used to investigate epithelial differentiation, tumor cell identity, and Mammaglobin expression patterns in mammary gland biology and breast tumor research.

Application Notes

Optimal dilution of the Mammaglobin Antibody Mouse Monoclonal MGB/2704 should be determined by the researcher.

Immunogen

Recombinant full-length human Mammaglobin-1 protein was used as the immunogen for the Mammaglobin antibody.

Storage

Store the Mammaglobin antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).

Alternate Names

Mammaglobin A antibody, SCGB2A2 antibody, Mammaglobin breast marker antibody, Secretoglobin family 2A member 2 antibody, Mammary gland secretoglobin antibody

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