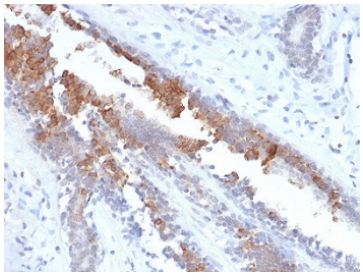
Mammaglobin Antibody Rabbit Monoclonal MGB/2123R / Mammaglobin A Antibody [clone MGB/2123R] (V7306)

Catalog No.	Formulation	Size
V7306-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V7306-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V7306SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V7306IHC-7ML	Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only*	7 ml

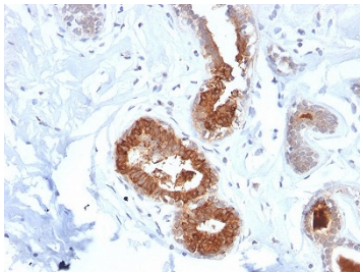
Recombinant RABBIT MONOCLONAL

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Rabbit
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG, kappa
Clone Name	MGB/2123R
Purity	Protein A affinity chromatography
UniProt	Q13296
Localization	Cytoplasmic, cell surface, nuclear
Applications	Immunohistochemistry (FFPE): 1-2ug/ml for 30 min at RT
Limitations	This Mammaglobin antibody is available for research use only.



Mammaglobin Antibody Rabbit Monoclonal MGB/2123R immunohistochemistry of human breast carcinoma. FFPE human breast carcinoma tissue was stained with Mammaglobin Antibody Rabbit Monoclonal (clone MGB/2123R). HRP-DAB brown chromogenic signal highlights cytoplasmic staining in tumor epithelial cells forming glandular structures, consistent with expression of Mammaglobin A / SCGB2A2 in breast carcinoma cells, while surrounding stromal cells show little to no staining. Heat-induced epitope retrieval was performed by boiling tissue sections in 10mM citrate buffer (pH6) for 10-20 minutes followed by cooling at room temperature prior to staining.



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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 Rabbit Monoclonal MGB/2123R 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 features make Mammaglobin an informative molecular marker for studies of epithelial differentiation and mammary gland physiology.

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 within epithelial tumor cell populations forming glandular structures, while surrounding stromal cells and connective tissue elements generally show little to no staining. These expression patterns have made Mammaglobin an important protein target in breast cancer research and epithelial tumor characterization.

Mammaglobin Antibody Rabbit Monoclonal (clone MGB/2123R) is developed to detect Mammaglobin A / SCGB2A2 in protein expression studies involving mammary epithelial tissues and breast cancer models. Antibodies targeting Mammaglobin are commonly 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 Rabbit Monoclonal MGB/2123R should be determined by the researcher.

1. The prediluted format is supplied in a dropper bottle and is optimized for use in IHC. After epitope retrieval step (if required), drip mAb solution onto the tissue section and incubate at RT for 30 min.

Immunogen

Full length recombinant human protein was used as the immunogen for the recombinant 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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