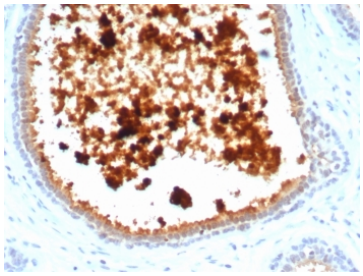
MGB1 Antibody / Mammaglobin A Antibody / SCGB2A2 [clone MGB/4811R] (V9243)

Catalog No.	Formulation	Size
V9243-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V9243-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V9243SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

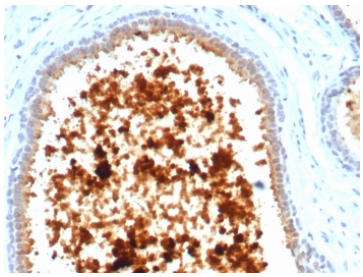
Recombinant RABBIT MONOCLONAL

Bulk quote request

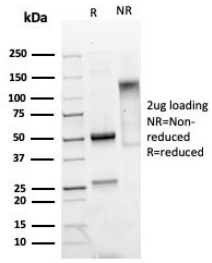
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Rabbit
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG
Clone Name	MGB/4811R
Purity	Protein A/G affinity
UniProt	Q13296
Localization	Cytoplasm
Applications	Immunohistochemistry (FFPE) : 1-2ug/ml
Limitations	This MGB1 antibody is available for research use only.



MGB1 Antibody clone MGB/4811R immunohistochemistry of human lactating breast tissue. FFPE human lactating breast tissue was stained with MGB1 antibody (clone MGB/4811R). HRP-DAB brown chromogenic signal highlights strong cytoplasmic staining in secretory epithelial cells lining mammary glandular structures and luminal secretions, consistent with high expression of Mammaglobin A / SCGB2A2 in lactating breast epithelium, while surrounding stromal cells 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.



IHC staining of FFPE human lactating breast tissue with MGB1 antibody (clone MGB/4811R). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



SDS-PAGE analysis of purified, BSA-free recombinant MGB1 antibody (clone MGB/4811R) as confirmation of integrity and purity.

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. MGB1 Antibody recognizes Mammaglobin A and targets a protein commonly referred to in the literature as Mammaglobin, Mammaglobin A, or SCGB2A2, a breast-associated secreted protein expressed primarily by mammary epithelial cells.

MGB1 antibody, also referred to as Mammaglobin A antibody or SCGB2A2 antibody in the literature, detects a protein that is highly associated with mammary gland epithelial cells. Mammaglobin A is produced by luminal epithelial cells within mammary glandular structures and is secreted into glandular lumens as part of epithelial secretory activity. This relatively restricted tissue expression pattern makes Mammaglobin an important molecular marker for studies of mammary epithelial biology and breast tumor origin.

Structurally, Mammaglobin A contains conserved cysteine residues typical of secretoglobin family proteins that contribute to protein folding and stability within the secretory pathway. As a secreted epithelial protein, Mammaglobin is commonly detected within the cytoplasm of mammary epithelial cells and may also be present within glandular luminal secretions depending on the tissue architecture and experimental preparation. These characteristics make Mammaglobin a useful molecular indicator of epithelial differentiation in mammary gland tissue.

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 typically show little to no expression. These expression patterns have led to Mammaglobin being widely studied in research focused on breast cancer biology and epithelial tumor characterization.

MGB1 Antibody (clone MGB/4811R) is a recombinant rabbit monoclonal antibody developed to detect Mammaglobin A / SCGB2A2 in protein expression studies. Antibodies against Mammaglobin are commonly used to investigate mammary epithelial cell differentiation, tumor cell identity, and protein localization in breast tissue and breast cancer research models.

Application Notes

Optimal dilution of the MGB1 antibody should be determined by the researcher.

Immunogen

Recombinant full-length human Mammaglobin/SCGB2A2 protein was used as the immunogen for the recombinant MGB1 antibody.

Storage

Aliquot the MGB1 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

Alternate Names

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

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