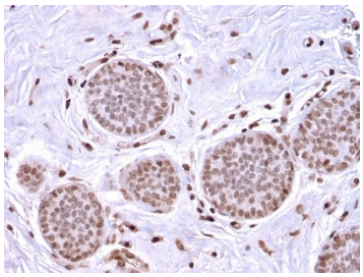
Mammaglobin Antibody for IF / SCGB2A2 Antibody [clone MGB/2682R] (V7436)

Catalog No.	Formulation	Size
V7436-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V7436-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V7436SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V7436IHC-7ML	Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only*	7 ml

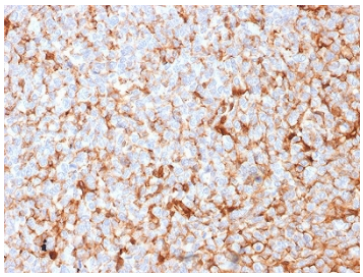
Recombinant RABBIT MONOCLONAL

Bulk quote request

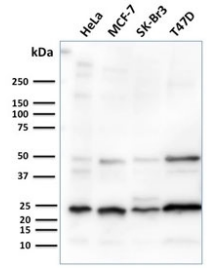
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Rabbit
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG, kappa
Clone Name	MGB/2682R
Purity	Protein A affinity chromatography
UniProt	Q13296
Localization	Cytoplasmic, cell surface, nuclear
Applications	Western blot: 1-2ug/ml Immunohistochemistry (FFPE): 0.1-0.2ug/ml for 30 min at RT Immunofluorescence: 1-2ug/ml
Limitations	This Mammaglobin antibody is available for research use only.



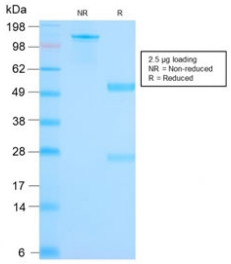
Mammaglobin Antibody immunohistochemistry of human breast carcinoma. FFPE human breast carcinoma tissue was stained with recombinant Mammaglobin antibody (clone MGB/2682R). HRP-DAB brown chromogenic signal highlights cytoplasmic staining in tumor epithelial cells forming glandular structures, consistent 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.



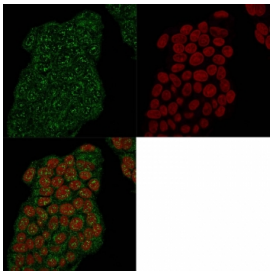
IHC testing of FFPE human breast carcinoma stained with recombinant Mammaglobin antibody (clone MGB/2682R). Required HIER: boiling tissue sections in 10mM citrate buffer, pH6, for 10-20 min followed by cooling at RT for 20 min.



Western blot testing of human HeLa, MCF-7, SK-Br3 and T47D cell lysate with recombinant Mammaglobin antibody (clone MGB/2682R). Expected molecular weight: 10-21 kDa depending on level of glycosylation.



SDS-PAGE analysis of purified, BSA-free Mammaglobin antibody (clone MGB/2682R) as confirmation of integrity and purity.



Mammaglobin Antibody for IF immunofluorescence staining of human MCF7 cells. Permeabilized human MCF7 breast carcinoma cells were stained with Mammaglobin Antibody for IF (clone MGB/2682R). Green fluorescence highlights Mammaglobin A / SCGB2A2 expression within the cytoplasm of tumor epithelial cells, consistent with the localization of this secreted breast-associated protein. Nuclei are counterstained with Reddot nuclear stain (red), allowing visualization of cell morphology and confirming cytoplasmic distribution of the Mammaglobin signal in breast cancer cells.

Description

Mammaglobin A (SCGB2A2) is a secreted epithelial glycoprotein encoded by the SCGB2A2 gene and belongs to the secretoglobin family of small secreted proteins expressed predominantly in mammary tissue. Mammaglobin Antibody for IF (clone MGB/2682R) recognizes Mammaglobin A / SCGB2A2 and is designed to support immunofluorescence microscopy studies that visualize this breast-associated protein within cells and tissue sections.

Mammaglobin antibody, also referred to as Mammaglobin A antibody or SCGB2A2 antibody in the literature, detects a protein strongly associated with mammary epithelial differentiation. Mammaglobin A is produced by luminal epithelial cells of the mammary gland and secreted into glandular lumens as part of normal epithelial secretory activity. Because of this

relatively restricted tissue distribution, Mammaglobin has been widely studied as a marker of mammary epithelial identity and breast tumor origin in experimental and pathological research.

Mammaglobin Antibody for IF enables visualization of Mammaglobin A expression using fluorescence microscopy, allowing researchers to observe the spatial distribution of the protein within individual cells. Immunofluorescence labeling provides high-resolution imaging of Mammaglobin localization, typically appearing as cytoplasmic fluorescence within epithelial tumor cells or cultured breast carcinoma cell lines. This fluorescence-based detection method allows Mammaglobin-positive epithelial cells to be distinguished from surrounding stromal or immune cells within complex tissue environments.

Immunofluorescence approaches are particularly valuable for studying protein localization, cellular morphology, and epithelial organization in breast cancer models. Fluorescent antibody labeling allows Mammaglobin Antibody for IF to be combined with nuclear stains or additional fluorescent antibodies in multicolor imaging experiments. These methods enable simultaneous visualization of Mammaglobin expression together with nuclear markers, cytoskeletal structures, or other epithelial proteins, supporting detailed analysis of cellular architecture and protein localization patterns.

Structurally, Mammaglobin A contains conserved cysteine residues typical of secretoglobin family proteins, contributing to stable folding within the secretory pathway. As a secreted epithelial protein, Mammaglobin is commonly detected within the cytoplasm of mammary epithelial cells and may also be observed in luminal secretions within glandular structures depending on tissue architecture and preparation methods. The recombinant rabbit monoclonal Mammaglobin Antibody for IF (clone MGB/2682R) provides a tool for fluorescence-based visualization of Mammaglobin A / SCGB2A2 in studies of breast epithelial biology, tumor cell populations, and protein localization in mammary gland and breast cancer research.

Application Notes

Optimal dilution of the Mammaglobin Antibody for IF 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, Secretoglobin family 2A member 2 antibody, Mammary gland secretoglobin antibody, Mammaglobin breast marker antibody

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