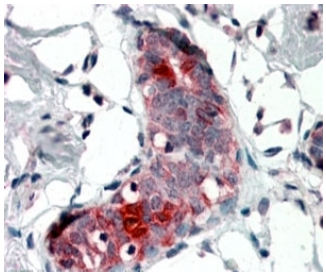
# Mammaglobin A Antibody Goat Polyclonal / Secretoglobin Family 2A Member 2 Antibody (R34879)

| Catalog No. | Formulation | Size |
|---|---|---|
| R34879-100UG | 0.5 mg/ml in 1X TBS, pH7.3, with 0.5% BSA (US sourced) and 0.02% sodium azide | 100 ug |

**Bulk quote request**

| | |
|---|---|
| **Availability** | 1-3 business days |
| **Species Reactivity** | Human |
| **Format** | Antigen affinity purified |
| **Host** | Goat |
| **Clonality** | Polyclonal (goat origin) |
| **Isotype** | Goat Ig |
| **Purity** | Antigen affinity |
| **Gene ID** | 4250 |
| **Localization** | Cytoplasmic, cell surface, nuclear |
| **Applications** | Immunohistochemistry (FFPE): 4-6ug/ml<br>ELISA (peptide) LOD: 1:32000 |
| **Limitations** | This Mammaglobin A antibody is available for research use only. |



Mammaglobin A Antibody Goat Polyclonal - immunohistochemistry of human breast tissue. FFPE human breast tissue was stained with Mammaglobin A Antibody Goat Polyclonal at 4 ug/ml to detect Mammaglobin A / SCGB2A2. Red chromogenic signal highlights cytoplasmic staining in mammary epithelial cells within glandular structures, consistent with the secretory localization of this breast-associated protein. Surrounding stromal cells show little to no staining. Heat-induced epitope retrieval was performed by steaming tissue sections in pH6 citrate buffer prior to AP-based chromogenic detection.

## Description

Mammaglobin A (SCGB2A2) is a secreted glycoprotein encoded by the SCGB2A2 gene and belongs to the secretoglobin family of small secreted proteins. Mammaglobin A Antibody Goat Polyclonal recognizes this breast-associated protein and supports research examining mammary epithelial differentiation, breast tissue biology, and breast cancer biomarkers. Mammaglobin A is one of the most well-known breast tissue markers and is frequently studied because of its high

expression in mammary epithelium and many breast carcinomas.

SCGB2A2 belongs to the secretoglobin protein family, which includes several small secreted proteins involved in epithelial cell function and regulation of inflammatory responses. Mammaglobin A is primarily produced by mammary epithelial cells and is normally expressed in breast tissue where it is secreted into glandular lumens. The protein contains characteristic secretoglobin structural features, including conserved cysteine residues that contribute to its folded secreted structure.

Mammaglobin A antibody, also referred to as SCGB2A2 antibody or Mammaglobin antibody in the literature, detects a protein that is highly enriched in breast epithelium. In tissue-based studies, Mammaglobin A is typically localized to the cytoplasm and secretory compartments of epithelial cells within mammary glands. Because of its tissue specificity, Mammaglobin A has become a widely used marker for identifying breast-derived epithelial cells in research studies.

Elevated Mammaglobin A expression is commonly observed in breast carcinomas and metastatic breast cancer lesions. For this reason, Mammaglobin A is frequently investigated as a biomarker for breast cancer detection, tumor characterization, and studies of metastatic disease. Detection of Mammaglobin A expression can assist in identifying tumors of breast origin in experimental and diagnostic research settings, particularly when evaluating metastatic lesions where the primary tumor site may be uncertain.

Beyond its role as a breast tissue marker, Mammaglobin A has been examined in studies of hormone signaling, tumor biology, and epithelial cell differentiation. Although its precise biological function is still being investigated, the protein is thought to participate in secretory pathways and epithelial cell signaling processes within mammary tissue. A goat polyclonal antibody such as Mammaglobin A Antibody Goat Polyclonal provides a useful tool for detecting SCGB2A2 expression and studying the biology of mammary epithelial cells and breast cancer in research applications.

## Application Notes

Optimal dilution of the Mammaglobin A Antibody Goat Polyclonal should be determined by the researcher.

## Immunogen

Amino acids NPQVSKTEYKEL were used as the immunogen for this Mammaglobin A antibody.

## Storage

Aliquot and store the Mammaglobin A antibody at -20oC.

## Alternate Names

SCGB2A2 antibody, Mammaglobin antibody, Mammaglobin A protein antibody, Secretoglobin 2A2 antibody, Mammary gland secretoglobin antibody


Copyright © NSJ Bioreagents. All rights reserved.