abcam

ab240981

Anti-Mammaglobin A antibody [SP319] - BSA and Azide free

Recombinant | RabMAb

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.2 - 7.4 Constituents: PBS
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Carrier free	Yes
Clone number	SP319
Purification technique	Affinity purification Protein A/G
Concentration	1.003 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

IHC-P

Tested

Species	Human
Dilution info	-

Notes	Antigen Retrieval: Boil tissue section in EDTA buffer, pH 8.0 for 10 minutes followed by cooling at room temperature for 20 minutes. Primary Antibody Incubation: 10 minutes at room temperature.

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	-
Notes	Primary antibody incubation for 30 minutes at 4Â°C.

Target data

See full target information SCGB2A2

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	+4°C
Storage information	Do Not Freeze

Notes

ab240981 is the carrier-free version of ab223504.
What are the advantages of a recombinant monoclonal antibody?
This product is a recombinant monoclonal antibody, which offers several advantages including:

- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free batch production

For more information, read more on recombinant antibodies.

Conjugation ready
Our carrier-free antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. This conjugation-ready format is designed for use with fluorochromes, metal isotopes,

oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.

Use our conjugation kits for antibody conjugates that are ready-to-use in as little as 20 minutes with 1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.

Compatibility
This product is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar® is a trademark of Fluidigm Canada Inc.

Supplementary info

This supplementary information is collated from multiple sources and compiled automatically.

Activity summary	Mammaglobin A also known as MGB1 is a breast-specific protein of approximately 93 amino acids with a molecular mass of about 15 kDa. It has a high expression in mammary tissue and limited expression in other tissues like the sweat glands. Researchers use immunohistochemistry (IHC) to detect Mammaglobin in tissue samples because of its tissue-specific expression making it a useful marker for breast epithelium.
Biological function summary	Mammaglobin A functions as a glycoprotein. Its precise biological role remains unclear but scientists propose it plays a role in secretory processes due to its presence in epithelial cells of the mammary glands. This protein itself is not known to participate in a larger complex. The significance of Mammaglobin A as a marker rather than an active enzyme or receptor suggests its potential involvement in processes specific to breast tissue.
Pathways	Mammaglobin A interacts within pathways involving sex steroid hormone signaling reflecting its expression in mammary tissue. This protein's expression is possibly regulated by hormonal pathways like the estrogen pathway which plays a significant role in breast tissue development and differentiation. It does not actively participate with related proteins but might be an indicator of pathway activities associated with specific tissues or conditions.
Associated diseases and disorders	Mammaglobin A is prominently associated with breast cancer. Its specific expression in breast tissue makes it a valuable marker for detecting disseminated breast tumor cells. Although it does not directly interact with proteins involved in cancer progression like HER2 or ER (estrogen receptor) its expression levels serve as an important biomarker for diagnosis and monitoring treatment response. Researchers continue to explore its potential utility in understanding breast cancer biology and improving clinical outcomes.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

We do not recommend this combination. It is not covered by our product promise.

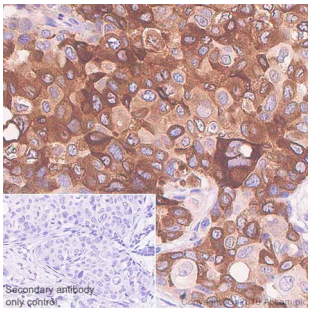
We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
Terms & Conditions.

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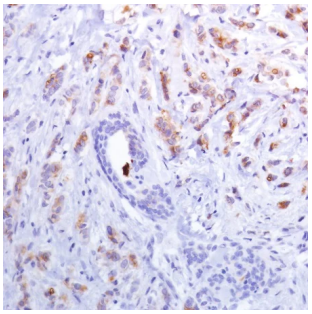
3 product images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Mammaglobin A antibody [SP319] - BSA and Azide free (ab240981)

Mammaglobin A Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-Mammaglobin A antibody

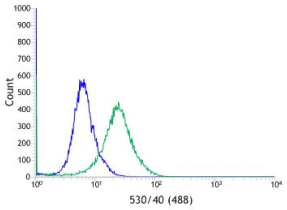
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Human breast carcinoma tissue sections labeling Mammaglobin A with ab223504 at 1/100 dilution (1.08 µg/ml). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 10mins. Goat Anti-Rabbit & Mouse IgG (HRP) was used as the secondary antibody. Hematoxylin was used as a counterstain. Cytoplasmic staining on the human breast carcinoma, performed on a Leica Biosystems BOND™ RX instrument.
The section was incubated with ab223504 for 10 mins at room temperature.
This image was generated using ab223504, the same clone, but with a different buffer formulation.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Mammaglobin A antibody [SP319] - BSA and Azide free (ab240981)

Mammaglobin A Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-Mammaglobin A antibody

Formalin-fixed, paraffin-embedded human breast ductal carcinoma tissue stained for Mammaglobin A with ab223504 at 1/100 dilution in immunohistochemical analysis.
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA and sodium azide (ab223504).



Flow Cytometry (Intracellular) - Anti-Mammaglobin A antibody [SP319] - BSA and Azide free (ab240981)

Mammaglobin A Flow Cytometry (Intracellular) staining using rabbit Anti-Mammaglobin A antibody

Intracellular flow cytometric analysis of MCF7 (human breast adenocarcinoma cell line) cells stained for Mammaglobin A using ab223504 (green) at 1/100 dilution compared to negative control of rabbit IgG (blue).
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA and sodium azide (ab223504).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.