abcam

ab235998

Anti-GCDFP 15 antibody [EP1582Y] - 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	EP1582Y
Purification technique	Affinity purification Protein A
Concentration	0.989 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

WB

Expected

Species	Human
Dilution info	Use at an assay dependent concentration.

Notes	-

IHC-P

Tested

Species	Human
Dilution info	-
Notes	-

ICC/IF

Tested

Species	Human
Dilution info	-
Notes	-

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	-
Notes	ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.

Target data

See full target information PIP

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

ab235998 is the carrier-free version of ab62363.

Species reactivity

Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.

Patented technology

Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents.

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	GCDFP-15 also known as gross cystic disease fluid protein 15 is a glycoprotein with a molecular weight of approximately 15 kDa. It is commonly expressed in apocrine glands particularly in breast tissue. Immunohistochemical studies show that GCDFP-15 is a marker for breast apocrine metaplasia and is frequently used in identifying apocrine carcinoma. The presence of GCDFP-15 in other sites like salivary glands suggests its broader role within glandular tissues.

Biological function summary	GCDFP-15 functions as a secretory protein involved in the regulation of fluid composition in ducts. It is not known to be part of a larger complex but acts independently. This protein plays a role in stabilizing the microenvironment of ductal secretions which assists in the preservation of ductal lining and the maintenance of tissue integrity. The modulation of fluid content by GCDFP-15 is essential in maintaining the function of glandular tissues.
Pathways	GCDFP-15 is integral to lipid metabolism pathways and may indirectly influence signal transduction. It shows interaction with other proteins like prolactin and fatty acid-binding protein suggesting a broader role in lipid-related biological processes. The involvement of GCDFP-15 in these pathways indicates its contribution to the regulation of metabolic homeostasis within glandular tissues.
Associated diseases and disorders	GCDFP-15 has notable significance in breast cancer particularly in differentiating apocrine-type carcinoma from other subtypes. The expression of GCDFP-15 is considered a biomarker in breast pathology for diagnostic purposes. In addition its role in salivary gland disorders is under investigation given its expression in the ducts of salivary glands. The protein's relationship with markers like mammaglobin further highlights its clinical relevance in distinguishing between glandular-related pathologies.

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

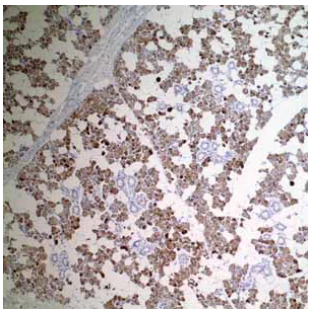
We do not recommend this combination. It is not covered by our product promise.

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.

7 product images

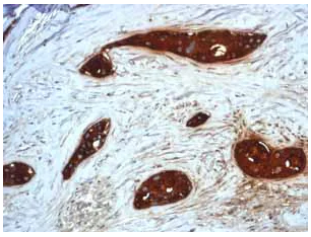


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GCDFP 15 antibody [EP1582Y] - BSA and Azide free (ab235998)

GCDFP 15 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-GCDFP 15 antibody

ab62363 showing positive staining in Salivary gland tissue.

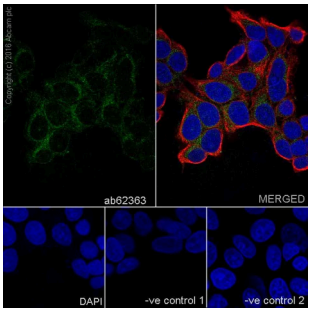
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab62363).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GCDFP 15 antibody [EP1582Y] - BSA and Azide free (ab235998)

GCDFP 15 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-GCDFP 15 antibody

ab62363 showing positive staining in Cystic breast disease tissue.
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab62363).



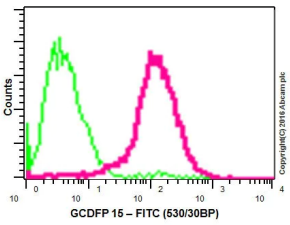
Immunocytochemistry/ Immunofluorescence - Anti-GCDFP 15 antibody [EP1582Y] - BSA and Azide free (ab235998)

GCDFP 15 Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-GCDFP 15 antibody

Immunocytochemistry/Immunofluorescence analysis of MCF-7 (human breast carcinoma) cells labelling GCDFP 15 with ab62363 at 1/100. Cells were fixed with 4% Paraformaldehyde and permeabilized with 0.1% Triton-X. ab150077, Alexa Fluor® 488-conjugated goat anti-rabbit IgG (1/1000) was used as the secondary antibody. Cells were counter-stained with ab7291 Anti-Tubulin antibody (1/1000) followed by ab150120 AlexaFluor®594 Goat anti-Mouse secondary (1/1000). Nuclei were counterstained with DAPI (blue).
For negative control 1, ab62363 at dilution of 1/100 was used followed by anti-mouse secondary antibody (ab150120) at 1/1000 dilution. For negative control 2, ab7291; 1/1000 was used followed by anti-rabbit secondary antibody (ab150077) at 1/1000 dilution.

Confocal image showing cytoplasmic staining on MCF7 cells.

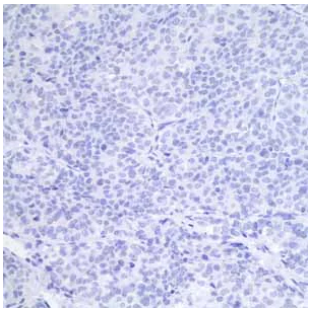
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Flow Cytometry (Intracellular) - Anti-GCDFP 15 antibody [EP1582Y] - BSA and Azide free (ab235998)

GCDFP 15 Flow Cytometry (Intracellular) staining using rabbit Anti-GCDFP 15 antibody

Intracellular Flow Cytometry analysis of T47D (human mammary gland ductal carcinoma) (pink) with ab62363 at dilution of 1/20. The secondary antibody used was goat anti rabbit IgG (FITC) at dilution of 1/150. Cells were fixed with 2% paraformaldehyde. Isotype control antibody used was Rabbit monoclonal IgG (green).
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab62363).

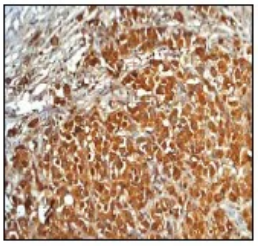


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GCDFP 15 antibody [EP1582Y] - BSA and Azide free (ab235998)

GCDFP 15 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-GCDFP 15 antibody

ab62363 showing negative staining in Hepatocellular carcinoma tissue.

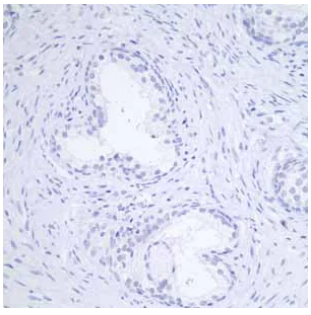
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab62363).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GCDFP 15 antibody [EP1582Y] - BSA and Azide free (ab235998)

GCDFP 15 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-GCDFP 15 antibody

Immunohistochemical analysis of GCDFP 15 expression in paraffin embedded human breast carcinoma using 1/100-1/250 dilution of ab62363This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab62363).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GCDFP 15 antibody [EP1582Y] - BSA and Azide free (ab235998)

ab62363 showing negative staining in Prostate hyperplasia tissue.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab62363).

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