abcam

ab62363

Anti-GCDFP 15 antibody [EP1582Y]

Recombinant | RabMAb | 20ul selling size

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.2 - 7.4 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Clone number	EP1582Y
Purification technique	Affinity purification Protein A
Concentration	0.114 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

IP

Not recommended

Species	Human
Dilution info	-
Notes	-

WB

Tested

Species	Human
Dilution info	1/1000 - 1/2000
Notes	-

IHC-P

Tested

Species	Human
Dilution info	1/100 - 1/250
Notes	-

ICC/IF

Tested

Species	Human
Dilution info	1/50 - 1/100
Notes	-

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	1/20
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	Conditional Ambient
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	-20°C
Aliquoting information	Upon delivery aliquot
Storage information	Avoid freeze / thaw cycle

Notes

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.

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

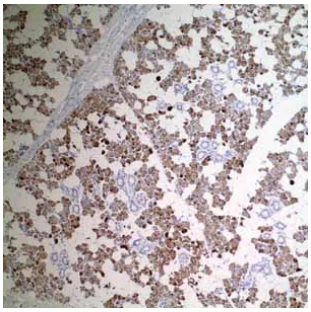
We do not recommend this combination. It is not covered by our product promise.

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.

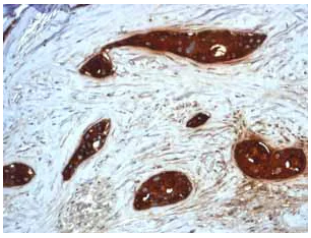
8 product images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GCDFP 15 antibody [EP1582Y] (ab62363)

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

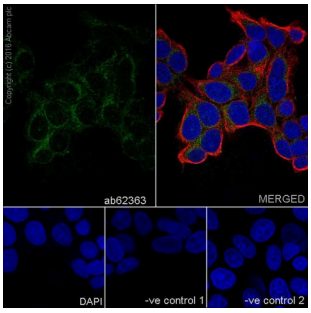
ab62363 showing positive staining in Salivary gland tissue.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GCDFP 15 antibody [EP1582Y] (ab62363)

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.

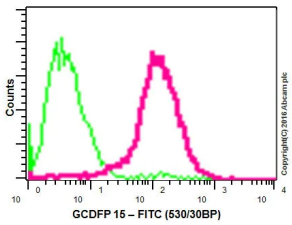


Immunocytochemistry/ Immunofluorescence - Anti-GCDFP 15 antibody [EP1582Y] (ab62363)

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.

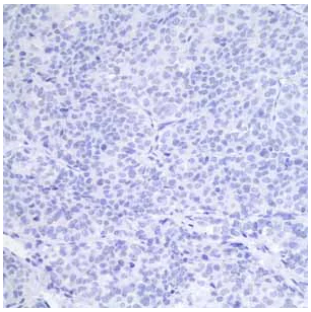
Confocal image showing cytoplasmic staining on MCF7 cells.



Flow Cytometry (Intracellular) - Anti-GCDFP 15 antibody [EP1582Y] (ab62363)

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

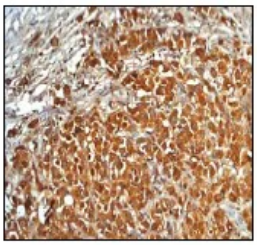
Intracellular Flow Cytometry analysis of T47D (human mammary gland ductal carcinoma) (pink) with ab62363 at dilution of 1/20. The secondary antibody used was goat anti rabbit IgG (FITC) at dilution of 1/150. Cells were fixed with 2% paraformaldehyde. Isotype control antibody used was Rabbit monoclonal IgG (green).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GCDFP 15 antibody [EP1582Y] (ab62363)

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

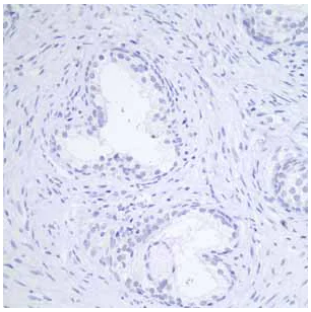
ab62363 showing negative staining in Hepatocellular carcinoma tissue.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GCDFP 15 antibody [EP1582Y] (ab62363)

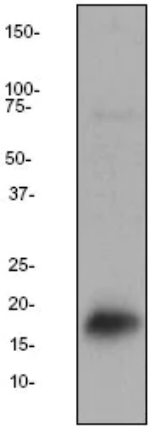
GCDFP 15 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-GCDFP 15 antibody

Immunohistochemical analysis of GCDFP 15 expression in paraffin embedded human breast carcinoma using 1/100-1/250 dilution of ab62363



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GCDFP 15 antibody [EP1582Y] (ab62363)

ab62363 showing negative staining in Prostate hyperplasia tissue.



Western blot - Anti-GCDFP 15 antibody [EP1582Y] (ab62363)

All lanes:
Western blot - Anti-GCDFP 15 antibody [EP1582Y] (ab62363) at 1/2000 dilution

All lanes:
T47D cell lysate at 10 µg

Secondary

All lanes:
goat anti rabbit HRP at 1/2000 dilution

Predicted band size: 17 kDa

Observed band size: 17 kDa

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