abcam

ab287968

Anti-Ferritin antibody [RM1036]

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	Multiclonal
Immunogens	The exact immunogen used to generate this antibody is proprietary information.
Clone number	RM1036
Concentration	0.547 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

IP

Not recommended

Species	Mouse, Human, Rat
Dilution info	-
Notes	-

Flow Cyt (Intra)

Tested

Species	Mouse
Dilution info	-
Notes	unsuitable with Rat.

Species	Human
Dilution info	-
Notes	unsuitable with Rat.

Not recommended

Species	Rat
Dilution info	-
Notes	unsuitable with Rat.

WB

Tested

Species	Mouse, Rat, Human
Dilution info	-
Notes	-

IHC-P

Tested

Species	Mouse, Rat, Human
Dilution info	-
Notes	-

ICC/IF

Not recommended

Species	Mouse, Human, Rat
Dilution info	-

Notes	-

IHC-Fr

Not recommended

Species	Mouse, Rat, Human
Dilution info	-
Notes	-

Target data

See full target information FTH1

Function	Stores iron in a soluble, non-toxic, readily available form. Important for iron homeostasis. Has ferroxidase activity (PubMed:9003196). Iron is taken up in the ferrous form and deposited as ferric hydroxides after oxidation (PubMed:9003196). Also plays a role in delivery of iron to cells (By similarity). Mediates iron uptake in capsule cells of the developing kidney (By similarity). Delivery to lysosomes is mediated by the cargo receptor NCOA4 for autophagic degradation and release of iron (PubMed:24695223, PubMed:26436293).

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage duration	1-2 weeks
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

What are recombinant multiclonals?
Recombinant multiclonals are a mixture of recombinant antibodies co-expressed from a library of heavy and light

chains. They offer several advantages including:

- The sensitivity of polyclonal antibodies by recognising multiple epitopes
- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free batch production

View our range of recombinant multiclonal antibodies.

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.

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

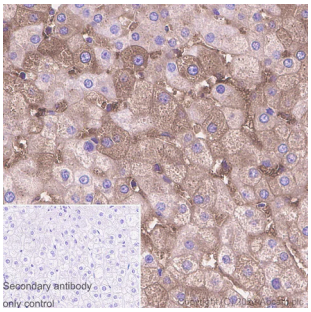
We do not recommend this combination. It is not covered by our product promise.

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

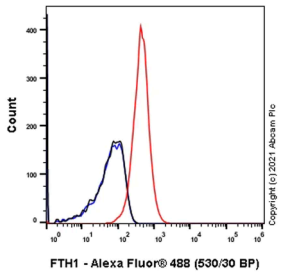


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Ferritin antibody [RM1036] (ab287968)

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

Immunohistochemical analysis of paraffin-embedded Human liver tissue labelling FTH1 with ab287968 at 1/100 followed by a ready to use Goat Anti-Rabbit IgG H&L (HRP polymer). Positive staining on the human liver. The section was incubated with ab287968 at 4°C overnight. Counterstained with Hematoxylin.
Secondary antibody only control: Secondary antibody is a ready to use Goat Anti-Rabbit IgG H&L (HRP polymer).

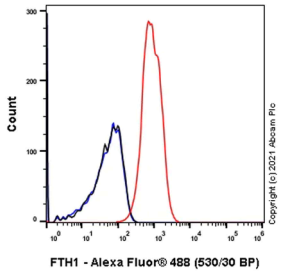
Heat mediated antigen retrieval using ab93684 (Tris/EDTA buffer, pH 9.0)



Flow Cytometry (Intracellular) - Anti-Ferritin antibody [RM1036] (ab287968)

Ferritin Flow Cytometry (Intracellular) staining using rabbit Anti-Ferritin antibody

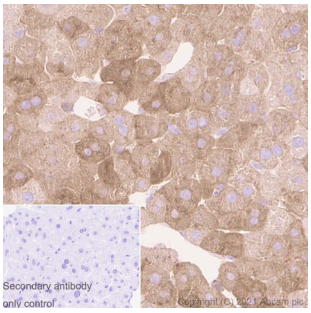
Flow cytometric analysis of 4% paraformaldehyde fixed 90% methanol permeabilized HeLa (Human cervix adenocarcinoma epithelial cell) cells labelling FTH1 with ab287968 at 1/50 dilution (1ug)/ red (Red) compared with a Rabbit monoclonal IgG (ab172730) (Black) isotype control and an unlabelled control (cells without incubation with primary antibody and secondary antibody) (Blue). A Goat Anti-Rabbit IgG (Alexa Fluor® 488, ab150081) at 1/2000 dilution was used as the secondary antibody.



Flow Cytometry (Intracellular) - Anti-Ferritin antibody [RM1036] (ab287968)

Ferritin Flow Cytometry (Intracellular) staining using rabbit Anti-Ferritin antibody

Flow cytometric analysis of 4% paraformaldehyde fixed 90% methanol permeabilized RAW 264.7 (Mouse Abelson murine leukemia virus-induced tumor macrophage) cells labelling FTH1 with ab287969 at 1/51 dilution (1ug)/ red (Red) compared with a Rabbit monoclonal IgG (ab172730) (Black) isotype control and an unlabelled control (cells without incubation with primary antibody and secondary antibody) (Blue). A Goat Anti-Rabbit IgG (Alexa Fluor® 488, ab150081) at 1/2001 dilution was used as the secondary antibody.

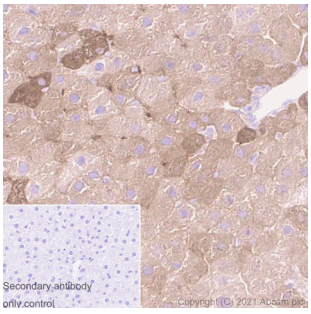


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Ferritin antibody [RM1036] (ab287968)

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

Immunohistochemical analysis of paraffin-embedded Mouse liver tissue labelling FTH1 with ab287968 at 1/5000 followed by a ready to use Goat Anti-Rabbit IgG H&L (HRP polymer). Positive staining on the mouse liver. The section was incubated with ab287968 at 4°C overnight. Counterstained with Hematoxylin.
Secondary antibody only control: Secondary antibody is a ready to use Goat Anti-Rabbit IgG H&L (HRP polymer).

Heat mediated antigen retrieval using ab93684 (Tris/EDTA buffer, pH 9.0)

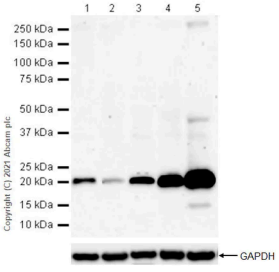


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Ferritin antibody [RM1036] (ab287968)

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

Immunohistochemical analysis of paraffin-embedded Rat liver tissue labelling FTH1 with ab287968 at 1/5000 followed by a ready to use Goat Anti-Rabbit IgG H&L (HRP polymer). Positive staining on the rat liver. The section was incubated with ab287968 at 4°C overnight. Counterstained with Hematoxylin.
Secondary antibody only control: Secondary antibody is a ready to use Goat Anti-Rabbit IgG H&L (HRP polymer).

Heat mediated antigen retrieval using ab93684 (Tris/EDTA buffer, pH 9.0)



Western blot - Anti-Ferritin antibody [RM1036] (ab287968)

Ferritin Western blot staining using rabbit Anti-Ferritin antibody

Blocking and diluting buffer and concentration: 5% NFDM/TBST
Exposure time: Lane 1-5: 3min

RIPA is the lysis buffer routinely used for WB (lanes 2 – 6). Preparation of lysates using the 1% SDS hot lysis method is recommended if bands are difficult to detect in RIPA buffer lysate.

All lanes:
Western blot - Anti-Ferritin antibody [RM1036] (ab287968) at 1/1000 dilution

Lane 1:
SH-SY5Y (Human neuroblastoma epithelial cell) whole cell lysate prepared from 1% SDS Hot lysis method at 20 µg

Lane 2:
SH-SY5Y (Human neuroblastoma epithelial cell) whole cell lysate prepared from RIPA lysis method at 20 µg

Lane 3:
HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysate at 20 µg

Lane 4:

RAW 264.7 (Mouse Abelson murine leukemia virus-induced tumor macrophage) whole cell lysate at 20 µg

Lane 5:
J774A.1 (Mouse reticulum cell sarcoma monocyte macrophage) whole cell lysate at 20 µg

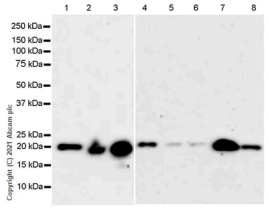
Secondary

All lanes:
Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/100000 dilution

Predicted band size: 21 kDa

Observed band size: 21 kDa

Western blot - Anti-Ferritin antibody [RM1036] (ab287968)



Ferritin Western blot staining using rabbit Anti-Ferritin antibody

Blocking and diluting buffer and concentration: 5% NFDM/TBST
Exposure time: Lane 1-3: 50s
Lane 4-8: 3min

All lanes:
Western blot - Anti-Ferritin antibody [RM1036] (ab287968) at 1/1000 dilution

Lane 1:
Human Liver at 20 µg

Lane 2:
Mouse liver at 20 µg

Lane 3:
Rat Liver at 20 µg

Lane 4:
HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysate at 20 µg

Lane 5:
SH-SY5Y (Human neuroblastoma epithelial cell) whole cell lysate at 20 µg

Lane 6:
Hepa1-6 (Mouse hepatoma epithelial cell) whole cell lysate at 20 µg

Lane 7:
C6 (Rat glial tumor glial cell) whole cell lysate at 20 µg

Lane 8:
PC-12 (Rat adrenal gland pheochromocytoma) whole cell lysate at 20 µg

Secondary

All lanes:
Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/100000 dilution

Predicted band size: 21 kDa

Observed band size: 21 kDa

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