

# Anti-Mitochondrial Ferritin antibody [EPR1797] - BSA and Azide free ab248043

Recombinant RabMAb

6 Images

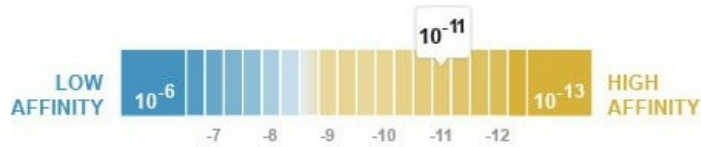
### Overview

<b>Product name</b>	Anti-Mitochondrial Ferritin antibody [EPR1797] - BSA and Azide free
<b>Description</b>	Rabbit monoclonal [EPR1797] to Mitochondrial Ferritin - BSA and Azide free
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> IHC-P, WB <b>Unsuitable for:</b> IP
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
<b>Positive control</b>	WB: Human testis tissue lysate. IHC-P: Human testis tissue.
<b>General notes</b>	<p>ab248043 is the carrier-free version of <a href="#">ab124889</a>.</p> <p>Our <b>carrier-free</b> antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency.</p> <p>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.</p> <p>Use our <b>conjugation kits</b> for antibody conjugates that are ready-to-use in as little as 20 minutes with &lt;1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.</p> <p>This product is compatible with the Maxpar<sup>®</sup> Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar<sup>®</sup> is a trademark of Fluidigm Canada Inc.</p> <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> <li>- High batch-to-batch consistency and reproducibility</li> <li>- Improved sensitivity and specificity</li> <li>- Long-term security of supply</li> <li>- Animal-free production</li> </ul> <p>For more information <a href="#">see here</a>.</p> <p>Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a>.</p>

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

## Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C. Do Not Freeze.
Dissociation constant ( $K_D$ )	$K_D = 4.40 \times 10^{-11}$ M



[Learn more about  \$K\_D\$](#)

Storage buffer	pH: 7.2 Constituent: PBS
Carrier free	Yes
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR1797
Isotype	IgG

## Applications

**The Abpromise guarantee** Our [Abpromise guarantee](#) covers the use of ab248043 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
WB		Use at an assay dependent concentration. Detects a band of approximately 22 kDa (predicted molecular weight: 28 kDa).

**Application notes** Is unsuitable for IP.

## Target

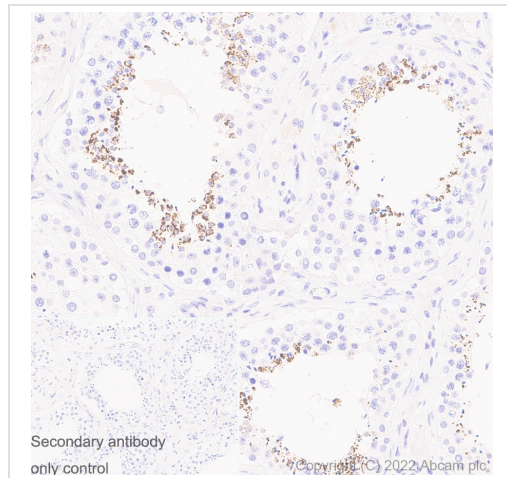
Function	Stores iron in a soluble, non-toxic, readily available form. Important for iron homeostasis. Has ferroxidase activity. Iron is taken up in the ferrous form and deposited as ferric hydroxides after oxidation.
Tissue specificity	Detected in testis and erythroleukemia. Expression is very low or not detectable in brain, colon, heart, kidney, liver, lung, muscle, placental, spleen and small intestine.
Sequence similarities	Belongs to the ferritin family.

Contains 1 ferritin-like diiron domain.

## Cellular localization

Mitochondrion.

## Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Mitochondrial Ferritin antibody [EPR1797] - BSA and Azide free (ab248043)

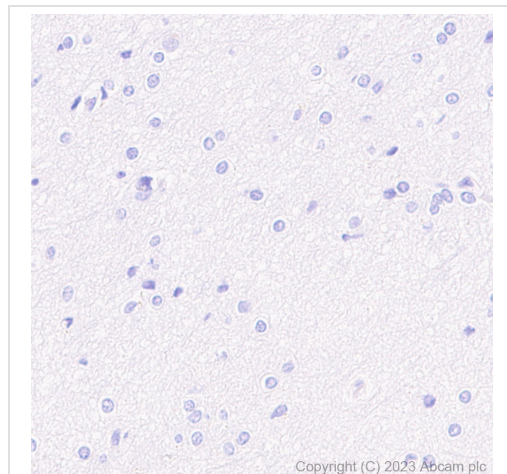
This data was developed using [ab124889](#), the same antibody clone in a different buffer formulation.

Immunohistochemical analysis of paraffin-embedded Human testis tissue labeling Mitochondrial Ferritin with [ab124889](#) at 1/5000 dilution (0.03 µg/ml) followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection) was used. The section was counterstained with Hematoxylin. Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0, Epitope Retrieval Solution2) for 20 mins.

Positive staining on the human testis. The section was incubated with [ab124889](#) for 30 mins at room temperature.

The immunostaining was performed on a Leica Biosystems BOND® RX instrument.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Mitochondrial Ferritin antibody [EPR1797] - BSA and Azide free (ab248043)

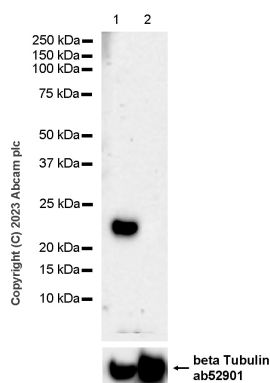
This data was developed using [ab124889](#), the same antibody clone in a different buffer formulation.

Immunohistochemical analysis of paraffin-embedded Human cerebrum tissue labeling Mitochondrial Ferritin with [ab124889](#) at 1/5000 dilution (0.03 µg/ml) followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection) was used. The section was counterstained with Hematoxylin. Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0, Epitope Retrieval Solution2) for 20 mins.

**Negative control:** no staining on the human cerebrum. The section was incubated with [ab124889](#) for 30 mins at room temperature.

The immunostaining was performed on a Leica Biosystems BOND® RX instrument.



Western blot - Anti-Mitochondrial Ferritin antibody  
[EPR1797] - BSA and Azide free (ab248043)

**All lanes :** Anti-Mitochondrial Ferritin antibody [EPR1797]  
([ab124889](#)) at 1/1000 dilution

**Lane 1 :** Human testis tissue lysate

**Lane 2 :** Human cerebellum tissue lysate

Lysates/proteins at 20 µg per lane.

### Secondary

**All lanes :** Goat Anti-Rabbit IgG (HRP) with minimal cross-reactivity  
with human IgG at 1/2000 dilution

**Predicted band size:** 28 kDa

**Observed band size:** 21 kDa

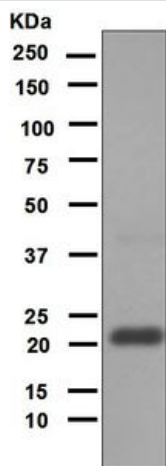
**Exposure time:** 180 seconds

This data was developed using [ab124889](#), the same antibody  
clone in a different buffer formulation.

Blocking and diluting buffer and concentration: 5% NFDm/TBST.

**Negative control:** human cerebellum.

In Western blot, anti-Anti-beta Tubulin antibody ([ab52901](#)) staining  
at 1/20000 dilution.



Western blot - Anti-Mitochondrial Ferritin antibody [EPR1797] - BSA and Azide free (ab248043)

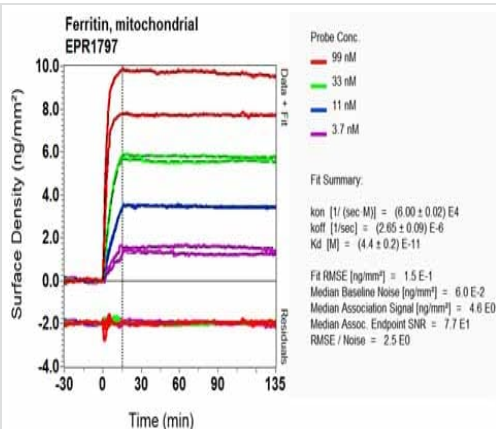
Anti-Mitochondrial Ferritin antibody [EPR1797] ([ab124889](#)) at 1/1000 dilution + Human Testis lysate at 10 µg

## Secondary

Goat anti-Rabbit HRP at 1/2000 dilution

**Predicted band size:** 28 kDa

This data was developed using [ab124889](#), the same antibody clone in a different buffer formulation.



OIR-D Scanning - Anti-Mitochondrial Ferritin antibody [EPR1797] - BSA and Azide free (ab248043)

This data was developed using [ab124889](#), the same antibody clone in a different buffer formulation. Equilibrium disassociation constant ( $K_D$ )

Learn more about  $K_D$

[Click here to learn more about  \$K\_D\$](#)

## Why choose a recombinant antibody?



**Research with confidence**  
Consistent and reproducible results



**Long-term and scalable supply**  
Recombinant technology



**Success from the first experiment**  
Confirmed specificity



**Ethical standards compliant**  
Animal-free production

Anti-Mitochondrial Ferritin antibody [EPR1797] - BSA and Azide free (ab248043)

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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