

Product datasheet

Anti-Mitochondrial Ferritin antibody [EPR1797] ab124889

Recombinant RabMAb

★★★★★ [1 Abreviews](#) [4 References](#) [6 Images](#)

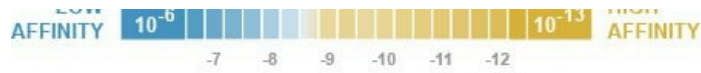
Overview

Product name	Anti-Mitochondrial Ferritin antibody [EPR1797]
Description	Rabbit monoclonal [EPR1797] to Mitochondrial Ferritin
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P Unsuitable for: IP
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide within Human Mitochondrial Ferritin aa 200-300 (C terminal). The exact sequence is proprietary. Database link: Q8N4E7
Positive control	Human Testis lysate.
General notes	This product is a recombinant monoclonal antibody, which offers several advantages including: <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information see here . Our RabMAb [®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents . 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 -20°C. Stable for 12 months at -20°C.
Dissociation constant (K_D)	K _D = 4.40 x 10 ⁻¹¹ M





[Learn more about K_D](#)

Storage buffer	pH: 7.2 Preservative: 0.05% Sodium azide Constituents: 0.1% BSA, 40% Glycerol (glycerin, glycerine), 9.85% Tris glycine, 50% Tissue culture supernatant
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR1797
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab124889 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

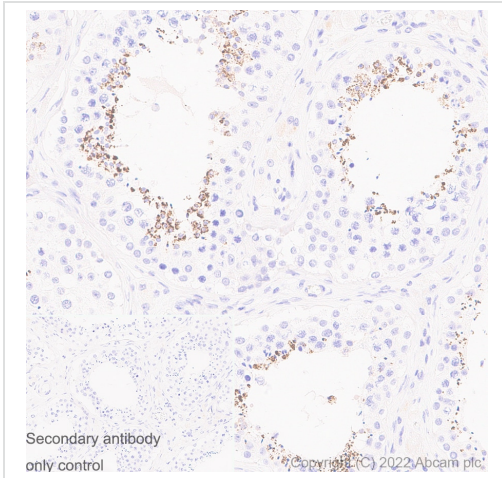
Application	Abreviews	Notes
WB	★★★★★ (1)	1/1000 - 1/10000. Detects a band of approximately 22 kDa (predicted molecular weight: 28 kDa).
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

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



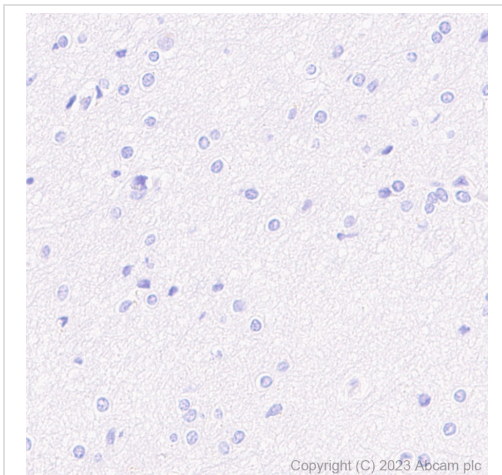
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Mitochondrial Ferritin antibody [EPR1797] (ab124889)

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.



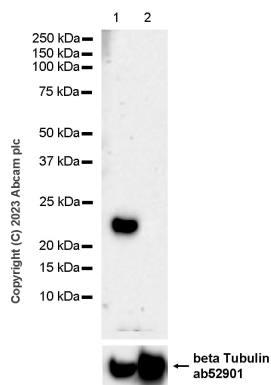
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Mitochondrial Ferritin antibody [EPR1797] (ab124889)

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] (ab124889)

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 μ g 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

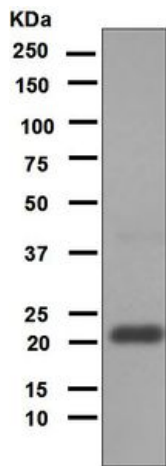
Observed band size: 21 kDa

Exposure time: 180 seconds

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.



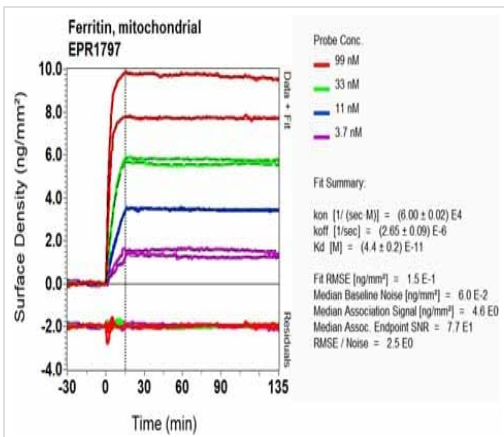
Western blot - Anti-Mitochondrial Ferritin antibody [EPR1797] (ab124889)

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

Secondary

Goat anti-Rabbit HRP at 1/2000 dilution

Predicted band size: 28 kDa



OIR-D Scanning - Anti-Mitochondrial Ferritin antibody [EPR1797] (ab124889)

Equilibrium dissociation 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] (ab124889)

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