

Product datasheet

Anti-FECH antibody ab55965

[2 References](#) [2 Images](#)

Overview

Product name	Anti-FECH antibody
Description	Rabbit polyclonal to FECH
Host species	Rabbit
Tested applications	Suitable for: ICC/IF, WB
Species reactivity	Reacts with: Human Predicted to work with: Mouse, Rat, Rabbit, Horse, Chicken, Guinea pig, Cow, Cat, Dog, Chimpanzee, Zebrafish
Immunogen	A region within synthetic peptide: PFIKRRTPK IQEQYRRIGG GSPIKWTSK QGEGMVKLLD ELSPNTAPHK, corresponding to N terminal amino acids 109-158 of Human FECH Run BLAST with ExPASy Run BLAST with NCBI
Positive control	Jurkat mitochondrial lysate

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	Preservative: 0.09% Sodium azide Constituents: 2% Sucrose, PBS
Purity	Protein A purified
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab55965** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

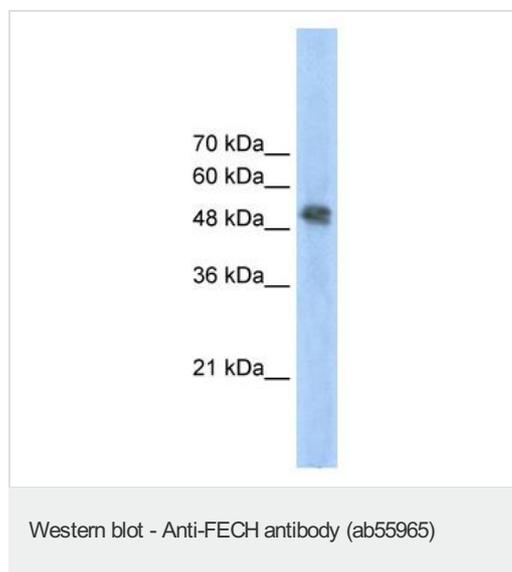
Application	Abreviews	Notes
ICC/IF		Use a concentration of 5 µg/ml.

Application	Abreviews	Notes
WB		Use a concentration of 2.5 µg/ml. Predicted molecular weight: 48 kDa. Good results were obtained when blocked with 5% non-fat dry milk in 0.05% PBS-T.

Target

Function	Catalyzes the ferrous insertion into protoporphyrin IX.
Pathway	Porphyrin metabolism; protoheme biosynthesis; protoheme from protoporphyrin-IX: step 1/1.
Involvement in disease	Erythropoietic protoporphyria (EPP) [MIM:177000]: A form of porphyria. Porphyrias are inherited defects in the biosynthesis of heme, resulting in the accumulation and increased excretion of porphyrins or porphyrin precursors. They are classified as erythropoietic or hepatic, depending on whether the enzyme deficiency occurs in red blood cells or in the liver. Erythropoietic protoporphyria is marked by excessive protoporphyrin in erythrocytes, plasma, liver and feces, and by widely varying photosensitive skin changes ranging from a burning or pruritic sensation to erythema, edema and wheals. Note=The disease is caused by mutations affecting the gene represented in this entry.
Sequence similarities	Belongs to the ferrochelatase family.
Cellular localization	Mitochondrion inner membrane.

Images



Anti-FECH antibody (ab55965) at 2.5 µg/ml + Jurkat cell lysate at 10 µg

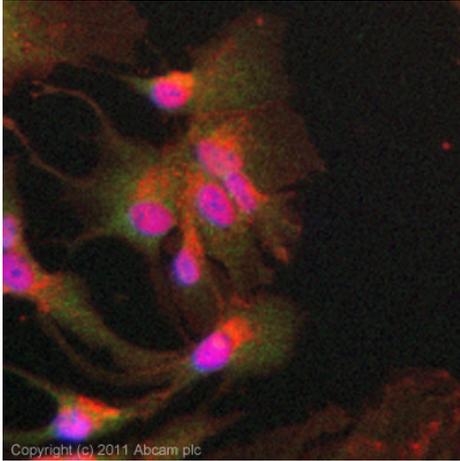
Secondary

HRP conjugated anti-Rabbit IgG at 1/50000 dilution

Predicted band size: 48 kDa

Observed band size: 50 kDa

[why is the actual band size different from the predicted?](#)



Immunocytochemistry/ Immunofluorescence - Anti-FECH antibody (ab55965)

ICC/IF image of ab55965 stained HepG2 cells. The cells were 4% PFA fixed (10mins) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab55965, 5µg/ml) overnight at +4°C. The secondary antibody (green) was ab96899 Dylight 488 goat anti-rabbit IgG (H+L) used at a 1/250 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM.

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