Datasheet for ABIN2776936

anti-FECH antibody (N-Term)

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Overview

Quantity:	100 µL
Target:	FECH
Binding Specificity:	N-Term
Reactivity:	Human, Mouse, Rat, Dog, Rabbit, Cow, Guinea Pig, Horse, Zebrafish (Danio rerio), Saccharomyces cerevisiae
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This FECH antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the N terminal region of human FECH
Sequence:	LDRDLMTLPI QNKLAPFIAK RRTPKIQEQY RRIGGGSPIK IWTSKQGEGM
Predicted Reactivity:	Cow: 100%, Dog: 100%, Guinea Pig: 100%, Horse: 100%, Human: 100%, Mouse: 100%, Rabbit: 100%, Rat: 100%, Yeast: 77%, Zebrafish: 86%
Characteristics:	This is a rabbit polyclonal antibody against FECH. It was validated on Western Blot using a cell lysate as a positive control.
Purification:	Protein A purified

Target Details

Target:	FECH

Target Details

Alternative Name:	FECH (FECH Products)
Background:	Ferrochelatase is localized to the mitochondrion where it catalyzes the insertion of the ferrous form of iron into protoporphyrin IX in the heme synthesis pathway. Defects in ferrochelatase are associated with protoporphyria.Ferrochelatase is localized to the mitochondrion where it catalyzes the insertion of the ferrous form of iron into protoporphyrin IX in the heme synthesis pathway. Defects in ferrochelatase are associated with protoporphyria. Two transcript variants encoding different isoforms have been found for this gene. Alias Symbols: EPP, FCE Protein Interaction Partner: PPP2R1A, UBC, NEDD8, MDM2, FBXO6, gag-pol, COPS5, COPS6, CUL3, ELAVL1, MINOS1, MME, USP42, USP20, ABCB7, FECH, Protein Size: 429
Molecular Weight:	47 kDa
Gene ID:	2235
NCBI Accession:	NM_001012515, NP_001012533
UniProt:	Q8NAN0
Pathways:	Transition Metal Ion Homeostasis

Application Details

Application Notes:	Optimal working dilutions should be determined experimentally by the investigator.
Comment:	Antigen size: 429 AA
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	Lot specific
Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

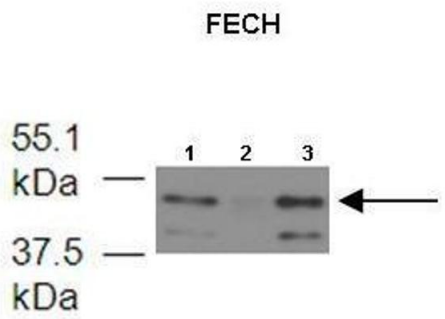
Handling

Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

Publications

Product cited in:	Coyne, Gambling, Boucher, Carson, Johnson: "Role of claudin interactions in airway tight junctional permeability." in: **American journal of physiology. Lung cellular and molecular physiology**, Vol. 285, Issue 5, pp. L1166-78, (2003) (PubMed).

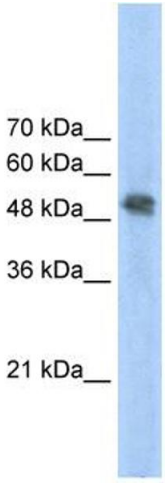
Validation report #102749 for Immunohistochemistry (IHC)



See Immunoblot 2 Data and Customer Feedback for more information

Western Blotting

Image 1. Lanes: 1. 6 ug mouse brain mitochondria extract 2. 6 ug mouse brain mitochondria extract 3. 6 ug mouse brain mitochondria extract Primary Antibody Dilution: 1:500 Secondary Antibody: Anti-rabbit HRP Secondary Antibody Dilution: 1:3000 Gene Name: FECH Submitted by: Dr. Hao Zhu, University of Kansas Medical Center



Western Blotting

Image 2. WB Suggested Anti-FECH Antibody Titration: 2.5ug/ml Positive Control: Jurkat cell lysate FECH is strongly supported by BioGPS gene expression data to be expressed in Human Jurkat cells