Datasheet for ABIN2779002

anti-FARS2 antibody (N-Term)

2 Images

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Overview

Quantity:	100 µL
Target:	FARS2
Binding Specificity:	N-Term
Reactivity:	Human, Rat, Mouse, Horse, Rabbit, Dog, Guinea Pig, Cow
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This FARS2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the N terminal region of human FARS2
Sequence:	VELLGKSYPQ DDHSNLTRKV LTRVGRNLHN QQHHPLWLIK ERVKEHFYKQ
Predicted Reactivity:	Cow: 93%, Dog: 92%, Guinea Pig: 85%, Horse: 83%, Human: 100%, Mouse: 92%, Rabbit: 100%, Rat: 93%
Characteristics:	This is a rabbit polyclonal antibody against FARS2. It was validated on Western Blot and immunohistochemistry.
Purification:	Protein A purified

Target Details

Target:	FARS2

Target Details

Alternative Name:	FARS2 (FARS2 Products)
Background:	Aminoacyl-tRNA synthetases are a class of enzymes that charge tRNAs with their cognate amino acids. FARS2 is a phenylalanine-tRNA synthetase (PheRS) localized to the mitochondrion which consists of a single polypeptide chain, unlike the (alpha-beta)2 structure of the prokaryotic and eukaryotic cytoplasmic forms of PheRS. Structure analysis and catalytic properties indicate mitochondrial PheRSs may constitute a class of PheRS distinct from the enzymes found in prokaryotes and in the eukaryotic cytoplasm.Aminoacyl-tRNA synthetases are a class of enzymes that charge tRNAs with their cognate amino acids. FARS1 encodes a mitochondrially-located phenylalanine-tRNA synthetase (PheRS) which consists of a single polypeptide chain unlike the (alpha-beta)2 structure of the prokaryotic and eukaryotic cytoplasmic forms of PheRS. Structure analysis and catalytic properties indicate mitochondrial PheRSs may constitute a class of PheRS distinct from the enzymes found in prokaryotes and the eukaryotic cytoplasm. Alias Symbols: FARS1, HSPC320, PheRS, dJ520B18.2 Protein Interaction Partner: TRIM27, KRT31, KRT13, RCBTB2, NOTCH2NL, KRTAP10-3, KRTAP10-5, KRTAP10-9, KRTAP10-7, KRT40, CMTM5, HMBOX1, TRIM54, AGTRAP, ADAMTSL4, APPL1, IKZF3, MID2, CALCOCO2, STX11, MKRN3, TFCP2, TADA2A, SUMO1, UBC, NEDD8, CUL3, ISG15, ICT1, USP45, G3BP2, Protein Size: 451
Molecular Weight:	50 kDa
Gene ID:	10667
NCBI Accession:	NM_006567, NP_006558
UniProt:	O95363

Application Details

Application Notes:	Optimal working dilutions should be determined experimentally by the investigator.
Comment:	Antigen size: 451 AA
Restrictions:	For Research Use only

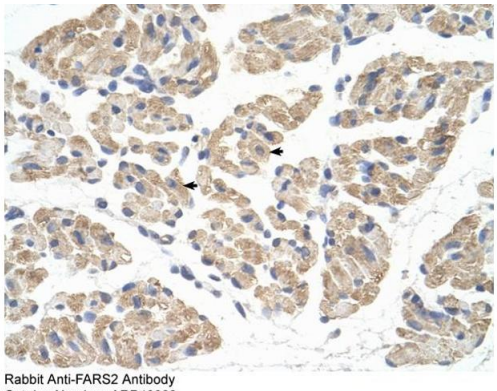
Handling

Format:	Liquid
Concentration:	Lot specific

Handling

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 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.

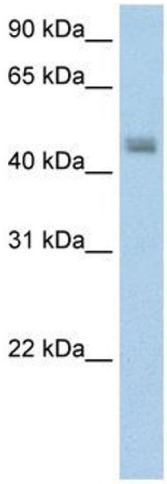
Images



Rabbit Anti-FARS2 Antibody
Catalog Number: ARP40669
Lot Number: QC9806
Paraffin Embeded Tissue: Human Muscle
Cells with Positive label: Skeletal muscle cells (Indicated with Arrows)
Antibody Concentration: 4.0-8.0 µg/ml
Magnification: 400X

Immunohistochemistry

Image 1. Rabbit Anti-FARS2 Antibody Paraffin Embedded Tissue: Human Muscle Cellular Data: Skeletal muscle cells Antibody Concentration: 4.0-8.0 ug/ml Magnification: 400X



Western Blotting

Image 2. WB Suggested Anti-FARS2 Antibody Titration: 5.0ug/ml ELISA Titer: 1:62500 Positive Control: Transfected 293T