

## Rabbit anti-Human ETFDH Polyclonal Antibody | anti-ETFDH antibody

ETFDH Antibody (N-term)

| CATALOG # | HOST   | REACTIVITY | APPLICATIONS                                                                |
|-----------|--------|------------|-----------------------------------------------------------------------------|
| AAA287948 | Rabbit | Human      | Flow Cytometry, Functional Assay, Immunohistochemistry, ELISA, Western Blot |

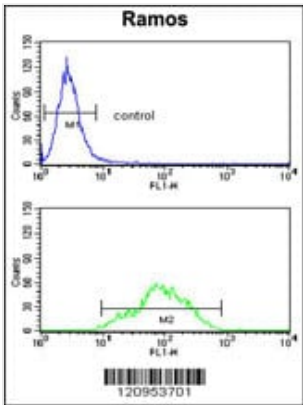
### PRODUCT SYNONYMS

ETFDH; Polyclonal Antibody; ETFDH Antibody (N-term); Electron transfer flavoprotein-ubiquinone oxidoreductase; mitochondrial; ETF-QO; ETF-ubiquinone oxidoreductase; Electron-transferring-flavoprotein dehydrogenase; ETF dehydrogenase; anti-ETFDH antibody

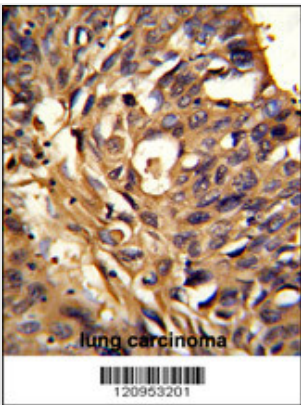
### PRODUCT SPECIFICATIONS

|                                                 |                                                                                                                                                                              |
|-------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                            | Rabbit                                                                                                                                                                       |
| Reactivity                                      | Human                                                                                                                                                                        |
| Clonality                                       | Polyclonal                                                                                                                                                                   |
| Isotype                                         | Rabbit Ig                                                                                                                                                                    |
| Specificity                                     | This ETFDH antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 32-61 amino acids from the N-terminal region of human ETFDH.         |
| Purity/Purification                             | Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)                                                                                                                   |
| Form/Format                                     | Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification. |
| Concentration                                   | Vial Concentration: 0.5 (varies by lot)                                                                                                                                      |
| Sequence Positions                              | 32-61                                                                                                                                                                        |
| Sequence Length                                 | 570                                                                                                                                                                          |
| Applicable Applications for anti-ETFDH antibody | FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), ELISA, WB (Western Blot)                                                                                              |
| Antigen Type                                    | Synthetic Peptide                                                                                                                                                            |
| Antigen Source                                  | HUMAN                                                                                                                                                                        |
| Preparation and Storage                         | Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.                       |

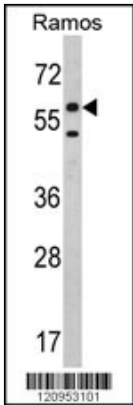
IMAGES



**FCM/FACS (Flow Cytometry)**  
ETFDH Antibody (N-term) flow cytometry analysis of Ramos cells (bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



**IHC (Immunohistochemistry)**  
Formalin-fixed and paraffin-embedded human lung carcinoma reacted with ETFDH Antibody (N-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



**WB (Western Blot)**  
Western blot analysis of ETFDH Antibody (N-term) in Ramos cell line lysates (35ug/lane). ETFDH (arrow) was detected using the purified Pab.

ADDITIONAL INFORMATION

|                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-ETFDH antibody | Electron-transferring-flavoprotein dehydrogenase in the inner mitochondrial membrane accepts electrons from electron-transfer flavoprotein which is located in the mitochondrial matrix and reduces ubiquinone in the mitochondrial membrane. The protein is synthesized as a 67-kDa precursor which is targeted to mitochondria and processed in a single step to a 64-kDa mature form located in the mitochondrial membrane. Deficiency in electron-transferring-flavoprotein dehydrogenase have been demonstrated in some patients with type II glutaricacidemia. |
| Product Categories/Family for anti-ETFDH antibody   | Metabolism; Signal Transduction                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| References                                          | Olsen,R.K., et.al., Hum. Mutat. 22 (1), 12-23 (2003)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

NCBI AND UNIPROT INFORMATION

|                           |                                          |
|---------------------------|------------------------------------------|
| NCBI GI #                 | 119703746                                |
| NCBI GeneID               | 2110                                     |
| NCBI Accession #          | NP_004444.2                              |
| NCBI GenBank Nucleotide # | NM_004453.3                              |
| UniProt Accession #       | Q16134; Q7Z347; B4E3R9; J3KND9; AAB24227 |

|                                  |                                                                                   |
|----------------------------------|-----------------------------------------------------------------------------------|
| Molecular Weight                 | 68495                                                                             |
| NCBI Official Full Name          | electron transfer flavoprotein-ubiquinone oxidoreductase, mitochondrial isoform 1 |
| NCBI Official Synonym Full Names | electron-transferring-flavoprotein dehydrogenase                                  |
| NCBI Official Symbol             | ETFDH                                                                             |
| NCBI Official Synonym Symbols    | MADD; ETFQO                                                                       |
| NCBI Protein Information         | electron transfer flavoprotein-ubiquinone oxidoreductase, mitochondrial           |
| UniProt Protein Name             | Electron transfer flavoprotein-ubiquinone oxidoreductase, mitochondrial           |
| UniProt Gene Name                | <b>ETFDH</b>                                                                      |
| UniProt Synonym Gene Names       | ETF-QO; ETF-ubiquinone oxidoreductase; ETF dehydrogenase                          |
| UniProt Entry Name               | ETFD_HUMAN                                                                        |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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