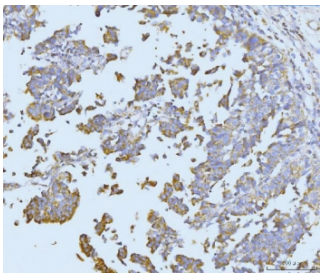
# ETFA Antibody (RQ6622)

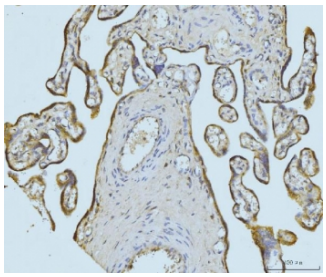
| Catalog No. | Formulation | Size |
|---|---|---|
| RQ6622 | 0.5mg/ml if reconstituted with 0.2ml sterile DI water | 100 ug |

## Bulk quote request

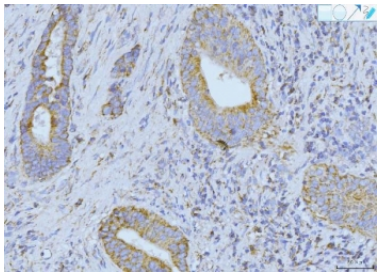
| | |
|---|---|
| **Availability** | 1-3 business days |
| **Species Reactivity** | Human, Mouse, Rat |
| **Format** | Antigen affinity purified |
| **Clonality** | Polyclonal (rabbit origin) |
| **Isotype** | Rabbit IgG |
| **Purity** | Antigen affinity purified |
| **Buffer** | Lyophilized from 1X PBS with 2% Trehalose |
| **UniProt** | P13804 |
| **Localization** | Cytoplasmic |
| **Applications** | Western Blot : 1-2ug/ml<br>Immunohistochemistry (FFPE) : 2-5ug/ml<br>Immunofluorescence (FFPE) : 5ug/ml<br>Direct ELISA : 0.1-0.5ug/ml |
| **Limitations** | This ETFA antibody is available for research use only. |



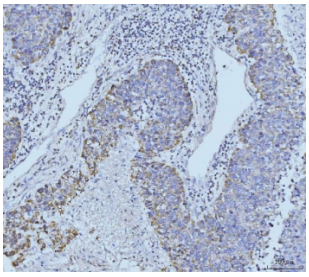
IHC staining of FFPE human colonic adenocarcinoma tissue with ETFA antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



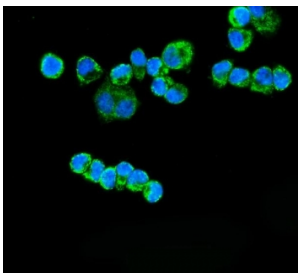
IHC staining of FFPE human placental tissue with ETFA antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



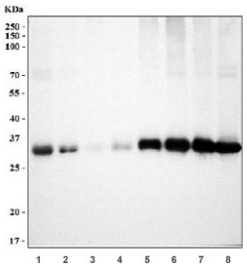
IHC staining of FFPE human bladder adenosquamous carcinoma tissue with ETFA antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



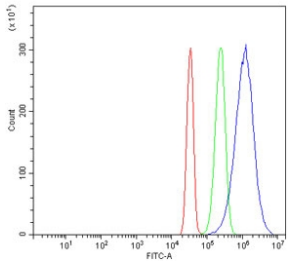
IHC staining of FFPE human liver cancer tissue with ETFA antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



Immunofluorescent staining of FFPE human T-47D cells with ETFA antibody (green) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.




Western blot testing of 1) human HepG2, 2) human HACAT, 3) human U937, 4) human T-47D, 5) rat heart, 6) rat liver, 7) mouse heart and 8) mouse liver tissue lysate with ETFA antibody. Predicted molecular weight: ~35/30 kDa (isoforms 1/2).




Flow cytometry testing of human SiHa cells with ETFA antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= ETFA antibody.

## Description

The human ETFA gene encodes the Electron-transfer-flavoprotein, alpha subunit, also known as ETF-a. Together with Electron-transfer-flavoprotein, beta subunit, encoded by the 'ETFB' gene, it forms the heterodimeric Electron transfer flavoprotein (ETF). ETFA participates in catalyzing the initial step of the mitochondrial fatty acid beta-oxidation. It shuttles electrons between primary flavoprotein dehydrogenases and the membrane-bound electron transfer flavoprotein ubiquinone oxidoreductase. Defects in electron-transfer-flavoprotein have been implicated in type II glutaricaciduria in which multiple acyl-CoA dehydrogenase deficiencies result in large excretion of glutaric, lactic, ethylmalonic, butyric, isobutyric, 2-methyl-butyric, and isovaleric acids. Two transcript variants encoding different isoforms have been found for this gene.

## Application Notes

Optimal dilution of the ETFA antibody should be determined by the researcher.

## Immunogen

Recombinant human protein (amino acids M1-K333) was used as the immunogen for the ETFA antibody.

## Storage

After reconstitution, the ETFA antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.