Anti-UQCRFS1 Antibody [JG62-31]

ET7108-28

Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human, Mouse, Rat
Applications:	WB, IF-Cell, IF-Tissue, IHC-P, FC, IP
Molecular Wt:	21 kDa
Clone number:	JG62-31

Description: Cytochrome b-c1 complex subunit Rieske, mitochondrial: Component of the mitochondrial ubiquinol-cytochrome c reductase complex dimer (complex III dimer), which is a respiratory chain that generates an electrochemical potential coupled to ATP synthesis. Incorporation of UQCRFS1 is the penultimate step in complex III assembly.

Immunogen: Recombinant protein within Human UQCRFS1 aa 180-274 / 274.

Positive control: A549 cell lysate, 293 cell lysate, mouse kidney tissue lysate, 293T, LOVO, SiHa, rat skeletal muscle tissue, human colon carcinoma tissue, mouse cerebellum tissue, human appendix tissue, human kidney tissue, A549.

Subcellular location: Mitochondrion.

Database links: SwissProt: P47985 Human | Q9CR68 Mouse | P20788 Rat

Recommended Dilutions:

WB	1:500-1:2,000
IF-Cell	1:500-1:2,000
IHC-P	1:50-1:200
FC	1:50-1:100
FC	1:10-1:50

Storage Buffer: 1*TBS (pH7.4), 0.05% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

Storage Instruction: Store at +4℃ after thawing. Aliquot store at -20℃. Avoid repeated freeze / thaw cycles.

Purity: Protein A affinity purified.

Images

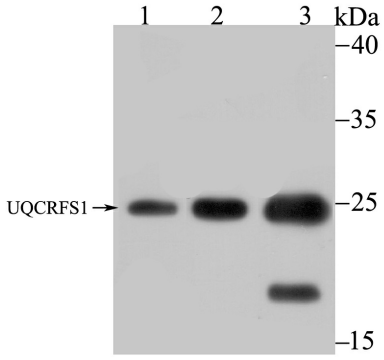

Fig1: Western blot analysis of UQCRFS1 on different lysates with Rabbit anti-UQCRFS1 antibody (ET7108-28) at 1/500 dilution.

Lane 1: A549 cell lysate, 10 µg/Lane
Lane 2: 293 cell lysate, 10 µg/Lane
Lane 3: Mouse kidney tissue lysate, 20 µg/Lane

Predicted band size: 21 kDa
Observed band size: 25 kDa

Exposure time: 2 minutes;

15% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (ET7108-28) at 1/500 dilution was used in 5% NFDM/TBST at room temperature for 2 hours. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1:5,000 dilution was used for 1 hour at room temperature.

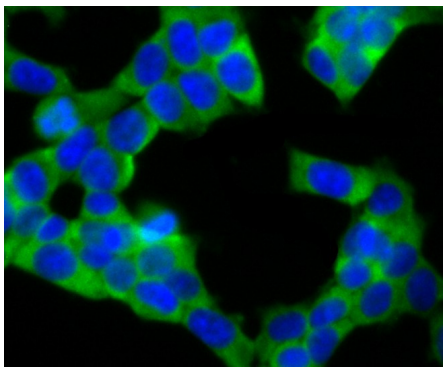

Fig2: Immunocytochemistry analysis of 293T cells labeling UQCRFS1 with Rabbit anti-UQCRFS1 antibody (ET7108-28) at 1/50 dilution.

Cells were fixed in 4% paraformaldehyde for 10 minutes at 37 ℃, permeabilized with 0.05% Triton X-100 in PBS for 20 minutes, and then blocked with 2% negative goat serum for 30 minutes at room temperature. Cells were then incubated with Rabbit anti-UQCRFS1 antibody (ET7108-28) at 1/50 dilution in 2% negative goat serum overnight at 4 ℃.Alexa Fluor®488 Goat anti-Rabbit I g G was used as the secondary antibody at 1/1,000 dilution.Nuclear DNA was labelled in blue with DAPI.

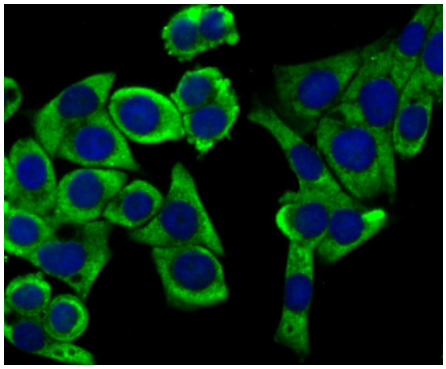

Fig3: Immunocytochemistry analysis of LOVO cells labeling UQCRFS1 with Rabbit anti-UQCRFS1 antibody (ET7108-28) at 1/50 dilution.

Cells were fixed in 4% paraformaldehyde for 10 minutes at 37 ℃, permeabilized with 0.05% Triton X-100 in PBS for 20 minutes, and then blocked with 2% negative goat serum for 30 minutes at room temperature. Cells were then incubated with Rabbit anti-UQCRFS1 antibody (ET7108-28) at 1/50 dilution in 2% negative goat serum overnight at 4 ℃.Alexa Fluor®488 Goat anti-Rabbit I g G was used as the secondary antibody at 1/1,000 dilution.Nuclear DNA was labelled in blue with DAPI.

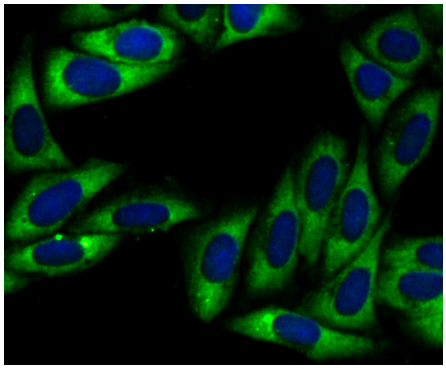

Fig4: Immunocytochemistry analysis of SiHa cells labeling UQCRFS1 with Rabbit anti-UQCRFS1 antibody (ET7108-28) at 1/50 dilution.

Cells were fixed in 4% paraformaldehyde for 10 minutes at 37 ℃, permeabilized with 0.05% Triton X-100 in PBS for 20 minutes, and then blocked with 2% negative goat serum for 30 minutes at room temperature. Cells were then incubated with Rabbit anti-UQCRFS1 antibody (ET7108-28) at 1/50 dilution in 2% negative goat serum overnight at 4 ℃.Alexa Fluor®488 Goat anti-Rabbit IgG was used as the secondary antibody at 1/1,000 dilution. Nuclear DNA was labelled in blue with DAPI.

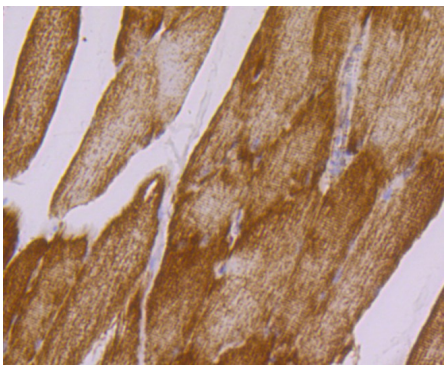

Fig5: Immunohistochemical analysis of paraffin-embedded rat skeletal muscle tissue with Rabbit anti-UQCRFS1 antibody (ET7108-28) at 1/50 dilution.

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH_2O and PBS, and then probed with the primary antibody (ET7108-28) at 1/50 dilution for 0.5 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

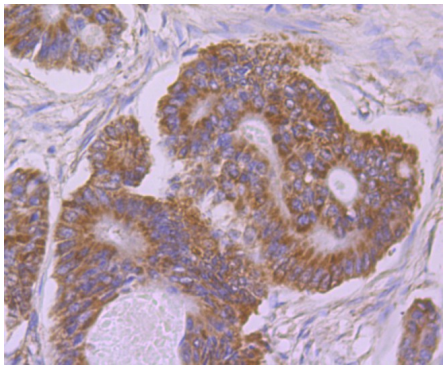

Fig6: Immunohistochemical analysis of paraffin-embedded human colon carcinoma tissue with Rabbit anti-UQCRFS1 antibody (ET7108-28) at 1/50 dilution.

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH_2O and PBS, and then probed with the primary antibody (ET7108-28) at 1/50 dilution for 0.5 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

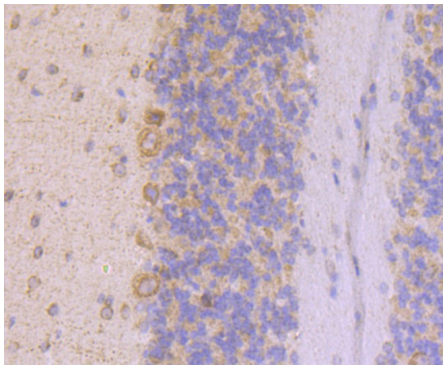

Fig7: Immunohistochemical analysis of paraffin-embedded mouse cerebellum tissue with Rabbit anti-UQCRFS1 antibody (ET7108-28) at 1/50 dilution.

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH_2O and PBS, and then probed with the primary antibody (ET7108-28) at 1/50 dilution for 0.5 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

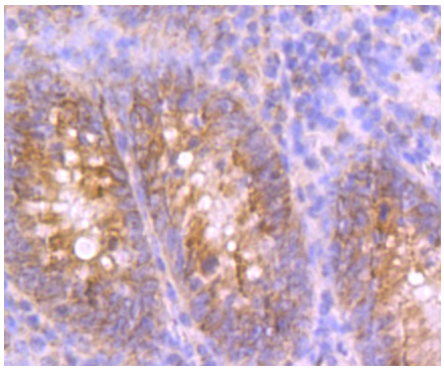

Fig8: Immunohistochemical analysis of paraffin-embedded human appendix tissue with Rabbit anti-UQCRFS1 antibody (ET7108-28) at 1/50 dilution.

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH_2O and PBS, and then probed with the primary antibody (ET7108-28) at 1/50 dilution for 0.5 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

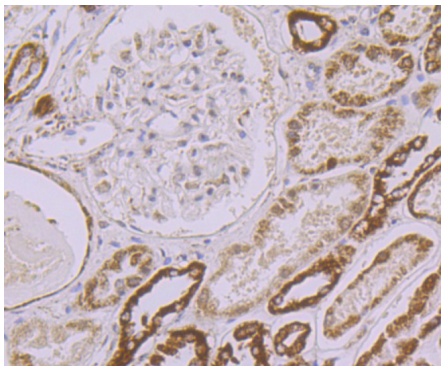

Fig9: Immunohistochemical analysis of paraffin-embedded human kidney tissue with Rabbit anti-UQCRFS1 antibody (ET7108-28) at 1/50 dilution.

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH_2O and PBS, and then probed with the primary antibody (ET7108-28) at 1/50 dilution for 0.5 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

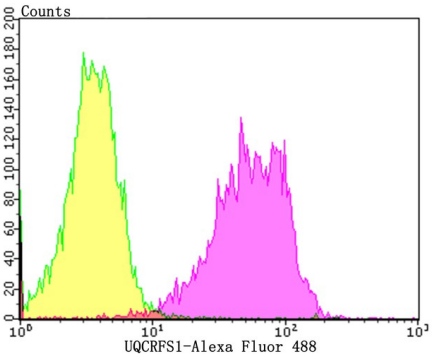

Fig10: Flow cytometric analysis of UQCRFS1 was done on A549 cells. The cells were fixed, permeabilized and stained with the primary antibody (ET7108-28, 1/50) (purple). After incubation of the primary antibody at room temperature for an hour, the cells were stained with a Alexa Fluor®488 conjugate-Goat anti-Rabbit IgG Secondary antibody at 1/1,000 dilution for 30 minutes.Unlabelled sample was used as a control (cells without incubation with primary antibody; yellow).

Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

1. Bottani E et al. TTC19 plays a husbandry role on UQCRFS1 turnover in the biogenesis of mitochondrial respiratory complex III. Mol Cell 67:96-105 (2017).
2. Sarto C et al. Renal cell carcinoma and normal kidney protein expression. Electrophoresis 18:599-604 (1997).