

Anti-Complex III Subunit 5 Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

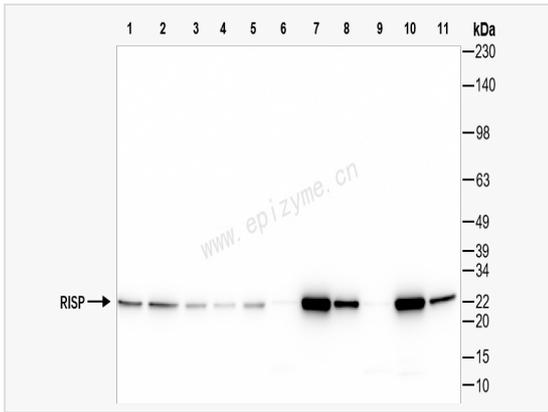
Catalog # R012815

Product Information

Application	WB, IHC-P/IF (Tissue-P), IF (Cell)/ICC, ELISA
Reactivity	Human, Mouse, Rat
Dilution	WB 1:1,000~1:2,000; IHC-P 1:100~1:200; IF 1:100~1:200
Host	Rabbit
Clonality	Monoclonal
Clone No.	10K48K15
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human RISP
Format	Affinity purified monoclonal antibody supplied in PBS with 0.02% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-Complex III Subunit 5 Rabbit mAb [10K48K15] is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Synonyms	Complex III subunit 5; Cytochrome b6f complex iron sulfur subunit, chloroplastic; petC; PGR1; Plastohydroquinone:plastocyanin oxidoreductase iron sulfur protein; Proton gradient regulation protein 1; Rieske iron sulfur protein; RIP1; RIS1; RISP; Ubiquinol cytochrome C reductase rieske iron sulphur; UQCR5; Cytochrome b-c1 complex subunit Rieske, mitochondrial.
Calculated MW	Calculated MW: 30 kDa; Observed MW: 22 kDa
Uniprot ID	P47985
Gene ID	7386
Background	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 (PubMed:28673544). Incorporation of UQCRFS1 is the penultimate step in complex III assembly (PubMed:28673544).
Cellular Location	Mitochondrion inner membrane.



Western Blot - Anti-Complex III Subunit 5 Rabbit mAb [10K48K15]

All lanes: R012815 at 1:1,000 dilution

Lane 1: HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates

Lane 2: HepG2 (Human hepatocarcinoma epithelial cell) whole cell lysates

Lane 3: 293T (Human embryonic kidney cell) whole cell lysates

Lane 4: U87 (Human malignant glioblastoma epithelial cells) whole cell lysates

Lane 5: SH-SY5Y (Human neuroblastoma epithelial cell) whole cell lysates

Lane 6: C2C12 (Mouse myoblasts epithelial cell) whole cell lysates

Lane 7: Mouse heart whole tissue lysates

Lane 8: Mouse muscle whole tissue lysates

Lane 9: PC-12 (Rat adrenal pheochromocytoma epithelial cell) whole cell lysates

Lane 10: Rat heart whole tissue lysates

Lane 11: Rat muscle whole tissue lysates

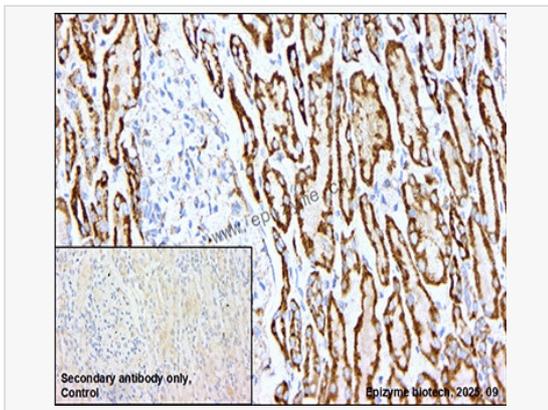
Lysates/proteins at 10 µg per lane.

Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution

Predicted band size: 30 kDa

Observed band size: 22 kDa

Developed using the ECL technique (Cat. No. SQ201).



Immunohistochemistry - Anti-Complex III Subunit 5 Rabbit mAb [10K48K15]

Sample: Paraformaldehyde-fixed, paraffin embedded human renal carcinoma tissue

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.

Primary antibody: R012815 at 1:200 dilution

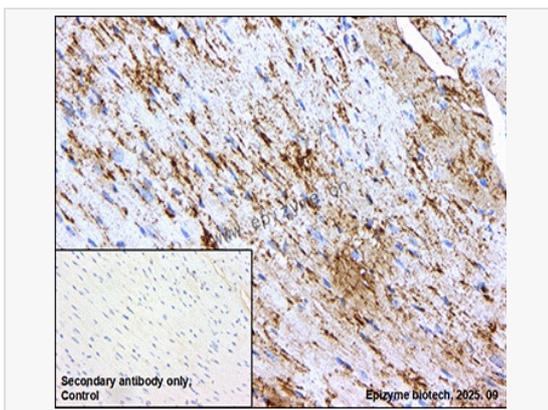
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution

DAB was used as the chromogen.

Counter stained with hematoxylin.

Positive/negative staining were presented.

Only the secondary antibody was used as the negative control.



Immunohistochemistry - Anti-Complex III Subunit 5 Rabbit mAb [10K48K15]

Sample: Paraformaldehyde-fixed, paraffin embedded mouse heart tissue

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.

Primary antibody: R012815 at 1:200 dilution

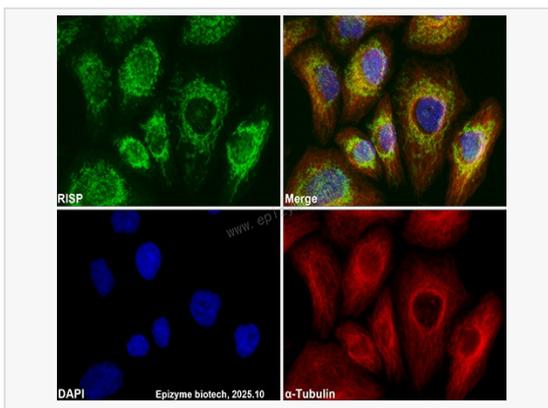
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution

DAB was used as the chromogen.

Counter stained with hematoxylin.

Positive/negative staining were presented.

Only the secondary antibody was used as the negative control.



Immunofluorescence - Anti-Complex III Subunit 5 Rabbit mAb [10K48K15]

Sample: HeLa cells

The cells were fixed with 4% paraformaldehyde (10 min), permeabilized with 0.5% Triton X-100 for 10 minutes and then blocked with 5% BSA in 0.1% PBS-Tween for 0.5 hours.

Primary antibodies: R012815 at 1:100 dilution and α-tubulin Mouse Monoclonal Antibody (Cat. No. LF209) at 1:100 dilution

Secondary antibodies: Goat anti-Rabbit (488) at 1:1,000 dilution

and Goat anti-Mouse (555) at 1:1,000 dilution (shown in red)

Nuclei were stained with DAPI (shown in blue).

