

# UQCRC2 Polyclonal antibody

Catalog Number: 14742-1-AP

Featured Product

59 Publications

## Basic Information

## Catalog Number:

14742-1-AP

## Size:

150ul, Concentration: 800 µg/ml by Nanodrop;

## Source:

Rabbit

## Isotype:

IgG

## Immunogen Catalog Number:

AG6432

## GenBank Accession Number:

BC000484

## GeneID (NCBI):

7385

## Full Name:

ubiquinol-cytochrome c reductase core protein II

## Calculated MW:

48 kDa

## Observed MW:

48 kDa

## Purification Method:

Antigen affinity purification

## Recommended Dilutions:

WB 1:2000-1:12000

IP 0.5-4.0 µg for 1.0-3.0 mg of total

protein lysate

IHC 1:50-1:500

IF 1:50-1:500

## Applications

## Tested Applications:

FC, IF, IHC, IP, WB, ELISA

## Cited Applications:

IF, IHC, WB

## Species Specificity:

human, mouse, rat

## Cited Species:

human, rat, sheep, mouse, zebrafish

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

## Positive Controls:

**WB:** mouse brain tissue, various samples, human colon tissue, mouse heart tissue, rat heart tissue

**IP:** HeLa cells,

**IHC:** human colon cancer tissue,

**IF:** HepG2 cells,

## Background Information

UQCRC2(Ubiquinol-cytochrome-c reductase complex core protein 2) is also named as complex III subunit 2, core protein II and belongs to the UQCRC2/QCR2 subfamily. The bc1 complex contains 11 subunits: 3 respiratory subunits (cytochrome b, cytochrome c1 and Rieske/UQCRFS1), 2 core proteins (UQCRC1/QCR1 and UQCRC2/QCR2) and 6 low-molecular weight proteins (UQCRH/QCR6, UQCRB/QCR7, UQCRCQ/QCR8, UQCR10/QCR9, UQCR11/QCR10 and a cleavage product of Rieske/UQCRFS1) and is part of the mitochondrial respiratory chain. This protein distributes in mitochondrion inner membrane, peripheral membrane protein and matrix side.

## Notable Publications

Author	Pubmed ID	Journal	Application
Giulia Notarangelo	36173860	Science	WB
Wen-Kuan Huang	34638938	Int J Mol Sci	WB
Lei Wu	33129969	J Nutr Biochem	WB

## Storage

## Storage:

Store at -20°C. Stable for one year after shipment.

## Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

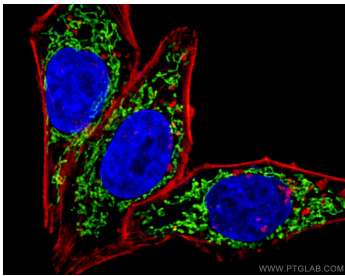
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

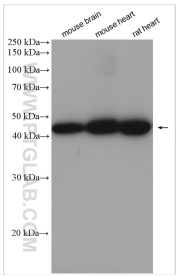
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

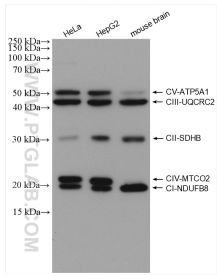
Selected Validation Data



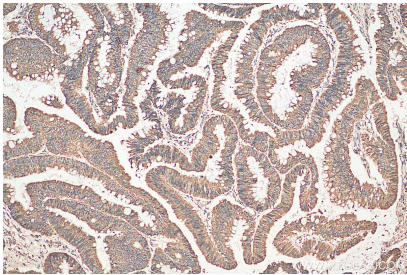
Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using 14742-1-AP (UQCRC2 antibody) at dilution of 1:100 and CoraLite488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L); Phalloidin stains F-actin (Red).



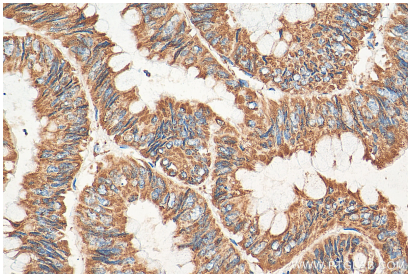
Various lysates were subjected to SDS PAGE followed by western blot with 14742-1-AP (UQCRC2 antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours.



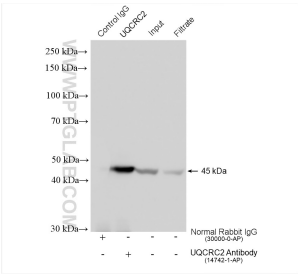
These five antibodies, ATP5A1 (14676-1-AP, 1:8000), UQCRC2 (14742-1-AP, 1:4000), SDHB (10620-1-AP, 1:8000), MTCO2 (55070-1-AP, 1:1000), NDUFB8 (14794-1-AP, 1:5000), can be assembled OXPHOS kit to detect the relative levels of the 5 OXPHOS complexes in mitochondrial preparations.



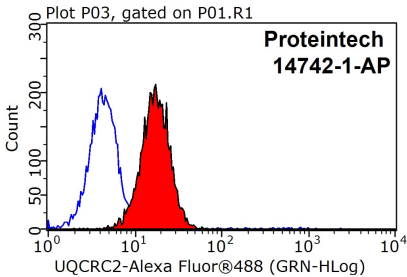
Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 14742-1-AP (UQCRC2 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 14742-1-AP (UQCRC2 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-UQCRC2(IP:14742-1-AP, 4ug; Detection:14742-1-AP 1:40000) with HeLa cells lysate 1320 ug.



1X10<sup>6</sup> HepG2 cells were stained with 0.2ug UQCRC2 antibody (14742-1-AP, red) and control antibody (blue). Fixed with 90% MeOH blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1500.