

For Research Use Only

# BCO2 Polyclonal antibody

Catalog Number: 14324-1-AP

6 Publications



## Basic Information

### Catalog Number:

14324-1-AP

### Size:

150ul, Concentration: 400 ug/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG5590

### GenBank Accession Number:

BC041656

### GeneID (NCBI):

83875

### UNIPROT ID:

Q9BYV7

### Full Name:

beta-carotene oxygenase 2

### Calculated MW:

66 kDa

### Observed MW:

60-65 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:500-1:2000

IHC 1:50-1:500

## Applications

### Tested Applications:

WB, IHC, ELISA

### Cited Applications:

WB, IHC, IF

### Species Specificity:

human, mouse, rat

### Cited Species:

human, mouse

**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 liver tissue, L02 cells, rat liver tissue

IHC : human prostate hyperplasia tissue,

## Background Information

Beta,beta-carotene 9',10'-oxygenase (BCO2) catalyzes the asymmetric oxidative cleavage of beta-carotene in carotene metabolism. The apocarotenals formed by this enzyme may be the precursors for the biosynthesis of retinoic acid or exert unknown physiological effects. BCO2 plays an important role in protecting against carotenoid-induced mitochondrial dysfunction and has a broader substrate specificity than previously recognized (PMID:22147584). This antibody detects the N-terminal of BCO2.

## Notable Publications

Author	Pubmed ID	Journal	Application
Binxing Li	24982131	Proc Natl Acad Sci U S A	WB, IHC
Dingbo Lin	24449471	Mol Nutr Food Res	WB
Xiaoming Gong	29662002	Molecules	

## 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

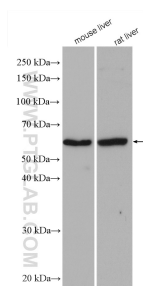
For technical support and original validation data for this product please contact:

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

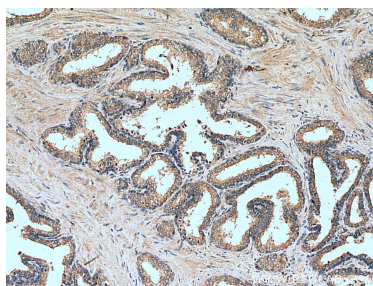
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 14324-1-AP (BCO2 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human prostate hyperplasia tissue slide using 14324-1-AP (BCO2 antibody) at dilution of 1:200 (under 10x lens).