

For Research Use Only

BCO2 Polyclonal antibody

Catalog Number: 14324-1-AP

6 Publications



Basic Information

Catalog Number:

14324-1-AP

Size:

400 µg/ml

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:

IHC, WB, 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

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

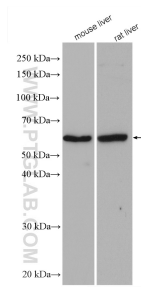
T: 4006900926

E: Proteintech-CN@ptglab.com

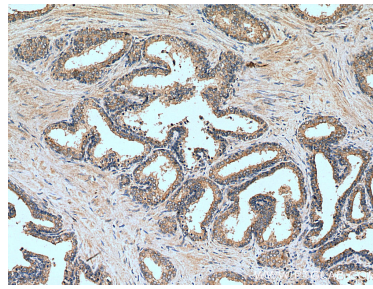
W: ptgcn.com

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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).