BCO2
Polyclonal ANTIBODY
Catalog Number: 14324-1-AP  4 Publications

Basic Information
Catalog Number: 14324-1-AP
Size: 25 μg/150 μl
Source: Rabbit
Isotype: IgG
Purification Method: Antigen affinity purification
Immunogen Catalog Number: AG5590
GenBank Accession Number: BC041656
GeneID (NCBI): 83875
Full Name: beta-carotene oxygenase 2
Calculated MW: 66 kDa
Observed MW: 60-65 kDa

Recommended Dilutions:
WB 1:500-1:1000
IHC 1:20-1:200
IF 1:20-1:200

Applications
Tested Applications: IF, IHC, WB, ELISA
Cited Applications: IHC, WB
Species Specificity: human, mouse
Cited Species: human, mouse

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

Positive Controls:
WB: L02 cells; human liver tissue, mouse liver tissue
IHC: human liver cancer tissue
IF: HepG2 cells

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

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<td>Dingbo Lin</td>
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<td>28482236</td>
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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: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or (312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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L02 cells were subjected to SDS PAGE followed by western blot with 14324-1-AP (BCO2 antibody) at dilution of 1:800 incubated at room temperature for 1.5 hours.

Immunohistochemical of paraffin-embedded human liver cancer using 14324-1-AP (BCO2 antibody) at dilution of 1:50 (under 10x lens).

Immunofluorescent analysis of HepG2 cells, using BCO2 antibody 14324-1-AP at 1:50 dilution and Rhodamine-labeled goat anti-rabbit (red), Blue pseudocolor = DAPI (fluorescent DNA dye).