

BCO2 Polyclonal Antibody

Catalog number: 14324-1-AP

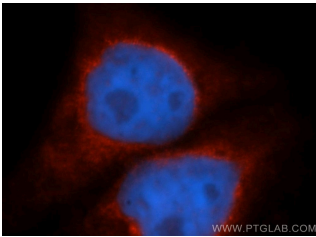
Size: 25 µg/150 µl

Source: Rabbit

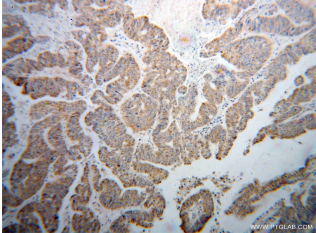
Isotype: IgG

Synonyms:

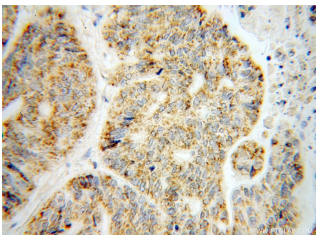
BCO2; B DIOX II, BCO2, Beta carotene dioxygenase 2, beta carotene oxygenase 2, FLJ34464



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



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



Immunohistochemical of paraffin-embedded human liver cancer using 14324-1-AP (BCO2 antibody) at dilution of 1:50 (under 40x lens)

Background

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.

Applications

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|--------------------------|---|
| Tested applications: | ELISA, WB, IHC, IF |
| Cited applications: | WB |
| Species specificity: | Human, Mouse, Rat; other species not tested. |
| Cited species: | Mouse |
| Calculated BCO2 MW: | 66kd |
| Observed BCO2 MW: | 60-65kd |
| Positive WB detected in | L02 cells, human liver tissue, mouse liver tissue |
| Positive IHC detected in | Human liver cancer tissue |
| Positive IF detected in | HepG2 cells |
| Recommended dilution: | WB: 1:400 - 1:1600 IHC: 1:25 - 1:100 IF: 1:25 - 1:100 |

Application key: WB = Western blotting, IHC = Immunohistochemistry, IF = Immunofluorescence, IP = Immunoprecipitation

Immunogen information

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|---------------------------|---------------------------|
| Immunogen: | Ag5590 |
| GenBank accession number: | BC041656 |
| Gene ID (NCBI): | 83875 |
| Full name: | Beta-carotene oxygenase 2 |

Product information

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|----------------------|--|
| Purification method: | Antigen affinity purification |
| Storage: | PBS with 0.02% sodium azide and 50% glycerol pH 7.3. Store at -20°C. |