

BCO2 Polyclonal antibody

Catalog Number: 14324-1-AP

6 Publications

Basic Information

Catalog Number: 14324-1-AP	GenBank Accession Number: BC041656	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 400 µg/ml by Nanodrop;	GeneID (NCBI): 83875	Recommended Dilutions: WB 1:500-1:2000 IHC 1:50-1:500
Source: Rabbit	Full Name: beta-carotene oxygenase 2	
Isotype: IgG	Calculated MW: 66 kDa	
Immunogen Catalog Number: AG5590	Observed MW: 60-65 kDa	

Applications

Tested Applications: IHC, WB, ELISA	Positive Controls:
Cited Applications: IHC, WB	WB : mouse liver tissue, L02 cells, rat liver tissue
Species Specificity: human, mouse, rat	IHC : human prostate hyperplasia tissue,
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

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.

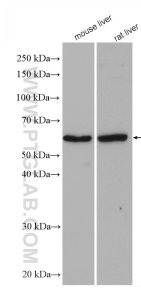
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

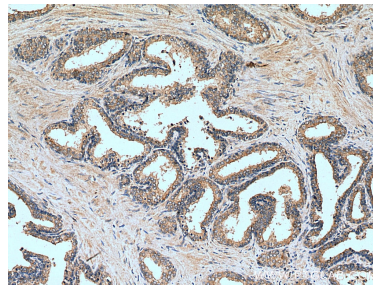
For technical support and original validation data for this product please contact:
 T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
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Selected Validation Data



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).