

For Research Use Only

BCMO1 Polyclonal antibody

Catalog Number: 23308-1-AP

1 Publications



Basic Information

Catalog Number:

23308-1-AP

Size:

800 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG19732

GenBank Accession Number:

BC126210

GeneID (NCBI):

53630

UNIPROT ID:

Q9HAY6

Full Name:

beta-carotene 15,15'-monooxygenase

1

Calculated MW:

547 aa, 63 kDa

Observed MW:

65 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:200-1:1000

IHC 1:20-1:200

Applications

Tested Applications:

IHC, WB, ELISA

Cited Applications:

WB, IF

Species Specificity:

human, mouse

Cited Species:

human

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 : COLO 320 cells, mouse colon tissue

IHC : human testis tissue,

Background Information

BCMO1(Beta,beta-carotene 15,15'-monooxygenase) is also named as BCDO, BCDO1 and belongs to the carotenoid oxygenase family. The human BCMO1 cDNA encodes a 63-kDa protein with homologies to members of a large and diverse family of polyene chain oxidases and carotenoid cleavage enzymes. Although BCMO1 can be detected in several tissues, its expression is most pronounced in intestinal mucosa and liver (PMID:16504037). It catalyzes the central cleavage of β -carotene to all-trans retinal and is the key enzyme in the intestinal metabolism of carotenes to vitamin A.

Notable Publications

Author	Pubmed ID	Journal	Application
Binxing Li	39151780	Exp Eye Res	WB,IF

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:

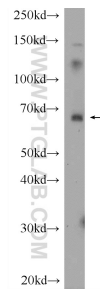
T: 4006900926

E: Proteintech-CN@ptglab.com

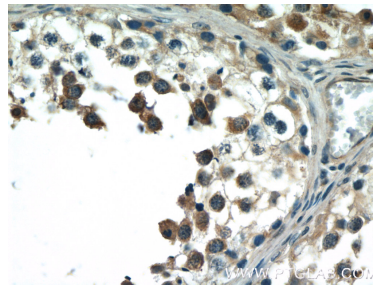
W: ptgcn.com

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Selected Validation Data



COLO 320 cells were subjected to SDS PAGE followed by western blot with 23308-1-AP (BCMO1 Antibody) at dilution of 1:300 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human testis tissue slide using 23308-1-AP (BCMO1 Antibody) at dilution of 1:50 (under 40x lens).