

For Research Use Only

BCMO1 Polyclonal antibody

Catalog Number: 23308-1-AP **1 Publications**



Basic Information

Catalog Number: 23308-1-AP	GenBank Accession Number: BC126210	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 800 ug/ml by Nanodrop and 360 ug/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 53630	Recommended Dilutions: WB 1:200-1:1000 IHC 1:20-1:200
Source: Rabbit	UNIPROT ID: Q9HAY6	
Isotype: IgG	Full Name: beta-carotene 15,15'-monooxygenase 1	
Immunogen Catalog Number: AG19732	Calculated MW: 547 aa, 63 kDa	
	Observed MW: 65 kDa	

Applications

Tested Applications: WB, IHC, ELISA	Positive Controls: WB : COLO 320 cells, mouse colon tissue IHC : human testis tissue,
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

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

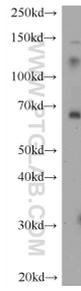
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

***** 20ul sizes contain 0.1% BSA**

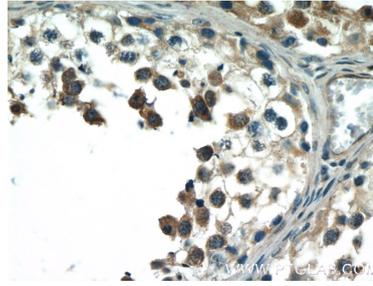
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
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Selected Validation Data



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).