

# BCMO1 Antibody - N-terminal region

Rabbit Polyclonal Antibody  
Catalog # AI16142

## Product Information

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<b>Application</b>	WB
<b>Primary Accession</b>	<a href="#">Q9HAY6</a>
<b>Other Accession</b>	<a href="#">NP_059125</a>
<b>Reactivity</b>	Human
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Calculated MW</b>	62637

## Additional Information

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<b>Gene ID</b>	53630
<b>Alias Symbol</b> <b>Other Names</b>	BCMO1, BCDO, BCDO1, Beta, beta-carotene 15, 15'-monooxygenase, 1.14.99.36, Beta-carotene dioxygenase 1, Beta-carotene oxygenase 1 {ECO:0000312 HGNC:HGNC:13815}, BCO1 ( <a href="#">HGNC:13815</a> )
<b>Format</b>	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
<b>Reconstitution &amp; Storage</b>	Add 50 $\mu$ l of distilled water. Final Anti-BCMO1 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at -20°C. Avoid repeat freeze-thaw cycles.
<b>Precautions</b>	BCMO1 Antibody - N-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	BCO1 ( <a href="#">HGNC:13815</a> )
<b>Function</b>	Symmetrically cleaves beta-carotene into two molecules of retinal using a dioxygenase mechanism.
<b>Cellular Location</b>	Cytoplasm, cytosol {ECO:0000250 UniProtKB:Q9I993}
<b>Tissue Location</b>	Highly expressed in retinal pigment epithelium. Also expressed in kidney, testis, liver, brain, small intestine and colon.

## Background

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Symmetrically cleaves beta-carotene into two molecules of retinal. The reaction proceeds in three stages, epoxidation of the 15,15'-double bond, hydration of the double bond leading to ring opening, and oxidative cleavage of the diol formed.

## References

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Yan W.,et al.Genomics 72:193-202(2001).

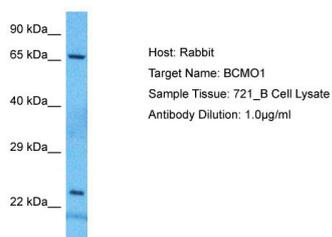
Ota T.,et al.Nat. Genet. 36:40-45(2004).

Mural R.J.,et al.Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.

Lindqvist A.,et al.J. Nutr. 137:2346-2350(2007).

## Images

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Host: Rabbit  
Target Name: BCMO1  
Sample Tissue: 721\_B Whole Cell lysates  
Antibody Dilution: 1.0µg/ml

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.