

**BCMO1 Antibody - N-terminal region**  
**Rabbit Polyclonal Antibody**  
**Catalog # AI16142****Specification**

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**BCMO1 Antibody - N-terminal region - Product Information**

|                   |                           |
|-------------------|---------------------------|
| Application       | WB                        |
| Primary Accession | <a href="#">Q9HAY6</a>    |
| Other Accession   | <a href="#">NP_059125</a> |
| Reactivity        | Human                     |
| Host              | Rabbit                    |
| Clonality         | Polyclonal                |
| Calculated MW     | 60kDa KDa                 |

**BCMO1 Antibody - N-terminal region - Additional Information****Gene ID** 53630**Alias Symbol** BCMO1, BCDO, BCDO1,  
**Other Names**

Beta, beta-carotene 15, 15'-monooxygenase, 1.14.99.36, Beta-carotene dioxygenase 1, Beta-carotene oxygenase 1 {ECO:0000312|HGNC:HGNC:13815}, BCO1 ([http://www.genenames.org/cgi-bin/gene\\_symbol\\_report?hgnc\\_id=13815](http://www.genenames.org/cgi-bin/gene_symbol_report?hgnc_id=13815))  
target="\_blank">HGNC:13815</a>)

**Format**

Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.

**Reconstitution & Storage**

Add 50 µl 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.

**Precautions**

BCMO1 Antibody - N-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

**BCMO1 Antibody - N-terminal region - Protein Information****Name** BCO1 ([HGNC:13815](#))**Function**

Symmetrically cleaves beta-carotene into two molecules of retinal using a dioxygenase mechanism.

**Cellular Location**

Cytoplasm, cytosol {ECO:0000250|UniProtKB:Q9I993}

**Tissue Location**

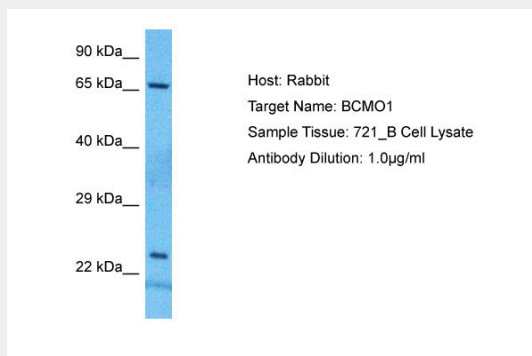
Highly expressed in retinal pigment epithelium. Also expressed in kidney, testis, liver, brain, small intestine and colon.

### BCMO1 Antibody - N-terminal region - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### BCMO1 Antibody - N-terminal region - Images



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

### BCMO1 Antibody - N-terminal region - Background

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.

### BCMO1 Antibody - N-terminal region - References

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).