

BCMO1 Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP10472c**Specification**

BCMO1 Antibody (Center) Blocking Peptide - Product Information

Primary Accession [O9HAY6](#)
Other Accession [NP_059125.2](#)

BCMO1 Antibody (Center) Blocking Peptide - Additional Information

Gene ID 53630

Other Names

Beta, beta-carotene 15, 15'-monooxygenase, 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)
HGNC:13815

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

BCMO1 Antibody (Center) Blocking Peptide - 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 (Center) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

BCMO1 Antibody (Center) Blocking Peptide - Images

BCMO1 Antibody (Center) Blocking Peptide - Background

Vitamin A metabolism is important for vital processes such as vision, embryonic development, cell differentiation, and membrane and skin protection. The protein encoded by this gene is a key enzyme in beta-carotene metabolism to vitamin A. It catalyzes the oxidative cleavage of beta, beta-carotene into two retinal molecules.

BCMO1 Antibody (Center) Blocking Peptide - References

Lietz, G., et al. Arch. Biochem. Biophys. 502(1):8-16(2010) Kim, Y.S., et al. Biotechnol. Lett. 32(6):847-853(2010) Dastani, Z., et al. Eur. J. Hum. Genet. 18(3):342-347(2010) Perry, J.R., et al. Diabetologia 52(10):2117-2121(2009) Ferrucci, L., et al. Am. J. Hum. Genet. 84(2):123-133(2009)