10320 Camino Santa Fe, Suite G
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BCMO1 Antibody (Center) Blocking Peptide

Synthetic peptide
Catalog # BP10472c

Specification

BCMO1 Antibody (Center) Blocking Peptide - Product Information

Primary Accession	Q9HAY6
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 (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

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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 suchas vision, embryonic development, cell differentiation, andmembrane and skin protection. The protein encoded by this gene is akey enzyme in beta-carotene metabolism to vitamin A. It catalyzesthe oxidative cleavage of beta,beta-carotene into two retinalmolecules.

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)