

BCMO1 Antibody (Center)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP10472c**Specification**

BCMO1 Antibody (Center) - Product Information

Application	WB,E
Primary Accession	O9HAY6
Other Accession	NP_059125.2
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	62637
Antigen Region	263-292

BCMO1 Antibody (Center) - 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)

Target/Specificity

This BCMO1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 263-292 amino acids from the Central region of human BCMO1.

Dilution

WB~~1:1000

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

BCMO1 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

BCMO1 Antibody (Center) - 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

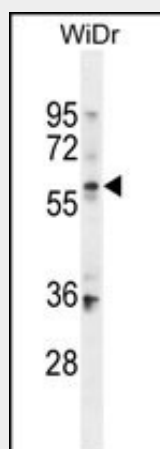
Highly expressed in retinal pigment epithelium. Also expressed in kidney, testis, liver, brain, small intestine and colon.

BCMO1 Antibody (Center) - 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 (Center) - Images



BCMO1 Antibody (Center) (Cat. #AP10472c) western blot analysis in WiDr cell line lysates (35ug/lane). This demonstrates the BCMO1 antibody detected the BCMO1 protein (arrow).

BCMO1 Antibody (Center) - 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) - 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)