

Product datasheet

Anti-BCMO1 antibody ab107418

1 Image

Overview

Product name	Anti-BCMO1 antibody
Description	Rabbit polyclonal to BCMO1
Host species	Rabbit
Tested applications	Suitable for: WB
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide conjugated to KLH, corresponding to a region between internal sequence amino acids 270-300 of Human BCMO1 (NP_059125.2).
Positive control	WiDr cell line lysates

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at 4°C (up to 6 months). Store at -20°C long term.
Storage buffer	Preservative: 0.09% Sodium Azide Constituents: PBS
Purity	Immunogen affinity purified
Purification notes	Purified through a protein A column, followed by peptide affinity purification.
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab107418** in the following tested applications.

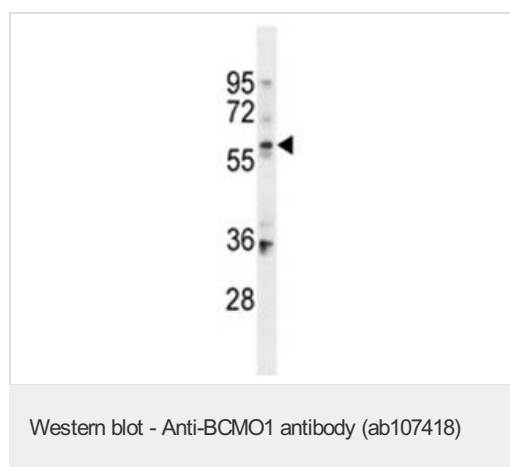
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/100 - 1/500. Predicted molecular weight: 63 kDa.

Target

Function	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.
Tissue specificity	Highly expressed in retinal pigment epithelium. Also expressed in kidney, testis, liver, brain, small intestine and colon.
Pathway	Cofactor metabolism; retinol metabolism.
Involvement in disease	Defects in BCMO1 are the cause of autosomal dominant hypercarotenemia and vitamin A deficiency (ADHVAD) [MIM:115300]. Vitamin A is essential for normal embryonic development as well as normal physiological functions in children and adults. Hypercarotenemia is characterized by an excess carotene in the serum, but unlike excess vitamin A, carotene is non-toxic. So far, only a few cases of excess vitamin A have been reported. Individuals were thought to be vitamin A deficient due to an impairment in the conversion of carotenoids to retinal in the intestine.
Sequence similarities	Belongs to the carotenoid oxygenase family.

Images



Anti-BCMO1 antibody (ab107418) at 1/100 dilution + WiDr cell line lysates at 35 µg

Predicted band size: 63 kDa

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