

Rabbit BCO2 Polyclonal Antibody | anti-BCO2 antibody

BCO2 Antibody

CATALOG # AAA323074	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS Immunohistochemistry, Western Blot
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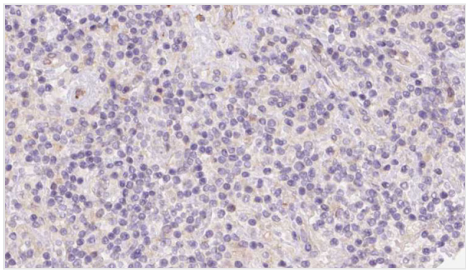
PRODUCT SYNONYMS

BCO2; Polyclonal Antibody; BCO2 Antibody; B-diox-II; BCDO2_HUMAN; Bco2; Beta; beta-carotene 9'; 10'-oxygenase; Beta-carotene dioxygenase 2; anti-BCO2 antibody

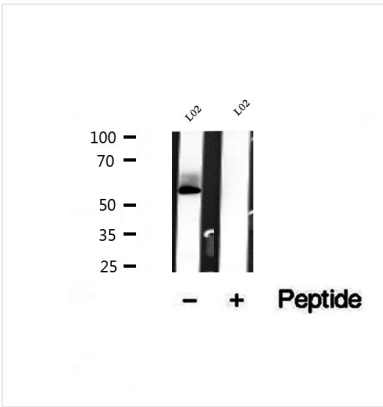
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	BCO2 antibody detects endogenous levels of BCO2.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	545
Applicable Applications for anti-BCO2 antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human BCO2.
Subcellular Location	Mitochondrion
Tissue Specificity	Highly expressed in retinal pigment epithelium. Also expressed in stomach, small intestine, liver, testis, kidney, adrenal gland, pancreas, heart, skeletal muscle and prostate (at protein level).
Predicted Cross Reactivity	Pig, Bovine, Horse, Sheep, Rabbit, Dog, Chicken, Xenopus
Similarity	Pig (100%), Bovine (83%), Horse (100%), Sheep (83%), Rabbit (100%), Dog (100%), Chicken (83%), Xenopus (92%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohistochemistry)
AAA323074 at 1/100 staining Human lymph cancer tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)
Western blot analysis of extracts of L02 cells, using BCO2 antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-BCO2 antibody	Function: Asymmetrically cleaves beta-carotene at the 9', 10' double bond resulting in the formation of beta-apo-10'-carotenal and beta-ionone. Besides beta-carotene, lycopene is also oxidatively cleaved. The apocarotenals formed by this enzyme may be the precursors for the biosynthesis of retinoic acid or exert unknown physiological effects. Similarity: Belongs to the carotenoid oxygenase family.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	374081845
NCBI GeneID	83875
NCBI Accession #	NP_001032367.2
NCBI GenBank Nucleotide #	NM_001037290.2
UniProt Accession #	Q9BYV7; Q8IUS0; Q96JC8; Q96JY5; B0YIX5; B4DNC3; E9PBI8; E9PJJ1
Molecular Weight	Observed: 60-65 kDa Predicted: 66 kDa
NCBI Official Full Name	beta,beta-carotene 9',10'-oxygenase isoform b
NCBI Official Synonym Full Names	beta-carotene oxygenase 2
NCBI Official Symbol	BCO2
NCBI Official Synonym Symbols	BCDO2; B-DIOX-II
NCBI Protein Information	beta,beta-carotene 9',10'-oxygenase
UniProt Protein Name	Beta,beta-carotene 9',10'-oxygenase
UniProt Gene Name	BCO2
UniProt Synonym Gene Names	BCDO2

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.