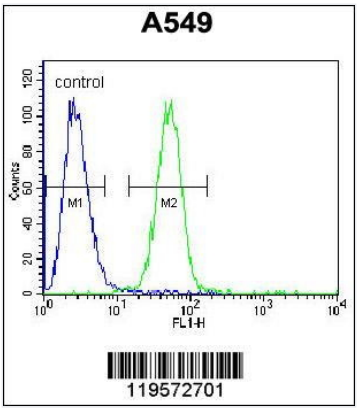
COP1 Antibody – Rabbit Polyclonal

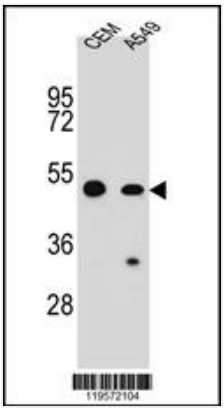
PRODUCT OVERVIEW

Product Name	COP1, Polyclonal Antibody
Full Product Name	COP1, NT (CARD16, COP, COP1, Caspase recruitment domain-containing protein 16, CARD only domain-containing protein 1, Caspase-1 inhibitor COP, Pseudo interleukin-1 beta converting enzyme) (FITC)
Product Gene Name	anti-COP1 antibody
Product Synonym Gene Name	CARD16
Product Synonym Names	CARD16; COP; COP1; Caspase recruitment domain-containing protein 16; CARD only domain-containing protein 1; Caspase-1 inhibitor COP; Pseudo interleukin-1 beta converting enzyme
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Fluorescein Isothiocyanate (FITC).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: FITC conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	10,737 Da
3D Structure	ModBase 3D Structure for Q5EG05
Immunogen	COP1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 44-73 amino acids from the N-terminal region of human COP1.
Conjugate	FITC
Note	Preservative Free
Special Handling	Light sensitive
Product Categories/Family for anti-COP1 antibody	Antibodies; Apoptosis; Caspase
Applications Tested/Suitable for anti-COP1 antibody	Flow Cytometry (FC/FACS), FLISA, Western Blot (WB)
Application Notes for anti-COP1 antibody	FC/FACS: 1:10-50 FLISA: 1:1,000 WB: 1:100-500 Applications are based on unconjugated antibody.
Related Product Information for anti-COP1 antibody	Caspase inhibitor. Acts as a regulator of procaspase-1/CASP1 activation implicated in the regulation of the proteolytic maturation of pro-interleukin-1 beta (IL1B) and its release during inflammation. Inhibits the release of IL1B in response to LPS in monocytes. Also induces NF-kappa-B activation during the pro-inflammatory cytokine response. Also able to inhibit CASP1-mediated neuronal cell death, TNF-alpha, hypoxia-, UV-, and staurosporine-mediated cell death but not ER stress-mediated cell death. Acts by preventing activation of caspases CASP1 and CASP4, possibly by preventing the interaction between CASP1 and RIPK2.

Product References and Citations for anti-COP1 antibody	Bailey, S.D., et al. Diabetes Care (2010). In press: Talmud, P.J., et al. Am. J. Hum. Genet. 85(5):628-642(2009). Wang, X., et al. Biochim. Biophys. Acta 1762(8):742-754(2006). Wang, X., et al. J. Neurosci. 25(50):11645-11654(2005). Lamkanfi, M., et al. J. Biol. Chem. 279(50):51729-51738(2004).
Other Notes	Small volumes of anti-COP1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for COP1 purchase	MBS6287826 is an antibody targeting COP1. Also known as COP1, NT (CARD16, COP, COP1, Caspase recruitment domain-containing protein 16, CARD only domain-containing protein 1, Caspase-1 inhibitor COP, Pseudo interleukin-1 beta converting enzyme) (FITC). Reactive in Human. Host: Rabbit.



Flow Cytometry (FC/FACS) of anti-COP1 antibody
COP1 Antibody (N-term) flow cytometric analysis of A549 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



Western Blot (WB) of anti-COP1 antibody
COP1 Antibody (N-term) western blot analysis in CEM,A549 cell line lysates (35ug/lane).This demonstrates the COP1 antibody detected the COP1 protein (arrow).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for COP1. It may not necessarily be applicable to this product.

NCBI GI #	16751833
NCBI GeneID	114769
NCBI Accession #	NP_443121.1
NCBI Related Accession #	NP_001017534.1
UniProt Primary Accession #	Q5EG05
UniProt Secondary Accession #	Q96RJ9
UniProt Related Accession #	Q5EG05
GenBank Nucleotide #	NM_052889.2
NCBI Official Full Name	caspase recruitment domain-containing protein 16 isoform 2
NCBI Official Synonym Full Names	caspase recruitment domain family member 16
NCBI Official Symbol	CARD16
NCBI Official Synonym Symbols	COP; COP1; PSEUDO-ICE
UniProt Protein Name	Caspase recruitment domain-containing protein 16
UniProt Synonym Protein Names	CARD only domain-containing protein 1; Caspase-1 inhibitor COP; Pseudo interleukin-1 beta converting enzyme
Protein Family	Cruxrhodopsin
UniProt Gene Name	CARD16
UniProt Synonym Gene Names	COP; COP1; Pseudo-ICE

UniProt Entry Name	CAR16_HUMAN
NCBI Protein Information	caspase recruitment domain-containing protein 16
Research Articles on COP1	**1.** Observational study of gene-disease association, gene-environment interaction, and pharmacogenomic / toxicogenomic. (HuGE Navigator)
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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Online datasheet: https://www.mybiosource.com/polyclonal-human-antibody/cop1/6287826