

**COPE Antibody (C-term) Blocking peptide**  
**Synthetic peptide**  
**Catalog # BP11329b****Specification**

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**COPE Antibody (C-term) Blocking peptide - Product Information**Primary Accession [O14579](#)**COPE Antibody (C-term) Blocking peptide - Additional Information****Gene ID** 11316**Other Names**

Coatomer subunit epsilon, Epsilon-coat protein, Epsilon-COP, COPE

**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.

**COPE Antibody (C-term) Blocking peptide - Protein Information****Name** COPE**Function**

The coatomer is a cytosolic protein complex that binds to dilysine motifs and reversibly associates with Golgi non-clathrin-coated vesicles, which further mediate biosynthetic protein transport from the ER, via the Golgi up to the trans Golgi network. The coatomer complex is required for budding from Golgi membranes, and is essential for the retrograde Golgi-to-ER transport of dilysine-tagged proteins. In mammals, the coatomer can only be recruited by membranes associated with ADP-ribosylation factors (ARFs), which are small GTP-binding proteins; the complex also influences the Golgi structural integrity, as well as the processing, activity, and endocytic recycling of LDL receptors (By similarity).

**Cellular Location**

Cytoplasm. Golgi apparatus membrane; Peripheral membrane protein; Cytoplasmic side. Cytoplasmic vesicle, COPI-coated vesicle membrane; Peripheral membrane protein; Cytoplasmic side. Note=The coatomer is cytoplasmic or polymerized on the cytoplasmic side of the Golgi, as well as on the vesicles/buds originating from it.

**COPE Antibody (C-term) Blocking peptide - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

#### **COPE Antibody (C-term) Blocking peptide - Images**

#### **COPE Antibody (C-term) Blocking peptide - Background**

The product of this gene is an epsilon subunit of coatamerprotein complex. Coatamer is a cytosolic protein complex that binds to dilysine motifs and reversibly associates with Golginon-clathrin-coated vesicles. It is required for budding from Golgi membranes, and is essential for the retrograde Golgi-to-ER transport of dilysine-tagged proteins. Coatamer complex consists of at least the alpha, beta, beta', gamma, delta, epsilon and zeta subunits. Alternatively spliced transcript variants encoding different isoforms have been identified.

#### **COPE Antibody (C-term) Blocking peptide - References**

Davila, S., et al. Genes Immun. 11(3):232-238(2010) Morikawa, R.K., et al. J. Biol. Chem. 284(39):26620-26630(2009) Maruyama, S., et al. Mol. Cell. Biochem. 307 (1-2), 73-82 (2008)  
:Goryachev, A.B., et al. PLoS Comput. Biol. 2 (12), E172 (2006) :Lippincott-Schwartz, J., et al. Trends Cell Biol. 16 (10), E1-E4 (2006) :