

**COPB Antibody (monoclonal) (M08)****Mouse monoclonal antibody raised against a partial recombinant COPB.****Catalog # AT1589a****Specification**

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**COPB Antibody (monoclonal) (M08) - Product Information**

Application	E
Primary Accession	<a href="#">P53618</a>
Other Accession	<a href="#">NM_016451</a>
Reactivity	Human
Host	mouse
Clonality	Monoclonal
Isotype	IgG2b Kappa
Calculated MW	107142

**COPB Antibody (monoclonal) (M08) - Additional Information****Gene ID** 1315**Other Names**

Coatomer subunit beta, Beta-coat protein, Beta-COP, COPB1, COPB

**Target/Specificity**

COPB (NP\_057535, 854 a.a. ~ 953 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

**Dilution**

E~~N/A

**Format**

Clear, colorless solution in phosphate buffered saline, pH 7.2 .

**Storage**

Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

**Precautions**

COPB Antibody (monoclonal) (M08) is for research use only and not for use in diagnostic or therapeutic procedures.

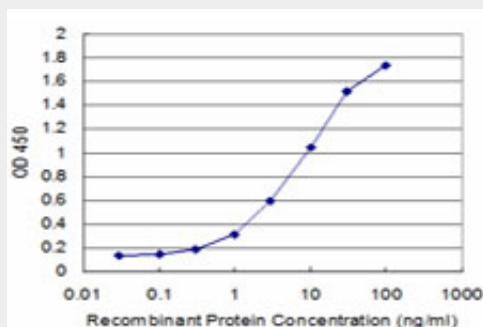
**COPB Antibody (monoclonal) (M08) - Protocols**

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](#)

### **COPB Antibody (monoclonal) (M08) - Images**



Detection limit for recombinant GST tagged COPB is approximately 0.3ng/ml as a capture antibody.

### **COPB Antibody (monoclonal) (M08) - Background**

This gene encodes a protein subunit of the coatamer complex associated with non-clathrin coated vesicles. The coatamer complex, also known as the coat protein complex 1, forms in the cytoplasm and is recruited to the Golgi by activated guanosine triphosphatases. Once at the Golgi membrane, the coatamer complex may assist in the movement of protein and lipid components back to the endoplasmic reticulum. Alternatively spliced transcript variants have been described.

### **COPB Antibody (monoclonal) (M08) - References**

Scyl1, mutated in a recessive form of spinocerebellar neurodegeneration, regulates COPI-mediated retrograde traffic. Burman JL, et al. J Biol Chem, 2008 Aug 15. PMID 18556652. Characterization of the interactome of the human MutL homologues MLH1, PMS1, and PMS2. Cannavo E, et al. J Biol Chem, 2007 Feb 2. PMID 17148452. Computational model explains high activity and rapid cycling of Rho GTPases within protein complexes. Goryachev AB, et al. PLoS Comput Biol, 2006 Dec 1. PMID 17140284. Insights into COPI coat assembly and function in living cells. Lippincott-Schwartz J, et al. Trends Cell Biol, 2006 Oct. PMID 16956762. A protein-protein interaction network for human inherited ataxias and disorders of Purkinje cell degeneration. Lim J, et al. Cell, 2006 May 19. PMID 16713569.