COPB1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	COPB1, Polyclonal Antibody
Full Product Name	COPB1 Antibody, HRP conjugated
Product Gene Name	anti-COPB1 antibody
Product Synonym Names	Coatomer subunit beta; COPB1; COPB; MSTP026; Beta-coat protein; Beta-COP
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Purity/Purification	>95%, Protein G Purified
Preparation and Storage	Shipped at 4 degree C. Upon delivery aliquot and store at -20 degree C or -80 degree C. Avoid repeated freeze.
Matching Pairs	Unconjugated Antibody: COPB1 (MBS7003214) HRP Conjugated Antibody: COPB1 (MBS1495673)
Molecular Weight	107,142 Da
OMIM	600959
3D Structure	ModBase 3D Structure for P53618
Storage Buffer	Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, PH 7.4
Conjugate	HRP
Immunogen	Recombinant human Coatomer subunit beta protein
Santa Cruz Alternative	Potential replacement for Santa Cruz Biotechnology antibody catalog# sc-13337 / sc-13335 / sc-30091
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-COPB1 antibody	ELISA (EIA)
Related Product Information for anti-COPB1 antibody	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. 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 to 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. Plays a functional role in facilitating the transport of kappa-type opioid receptor mRNAs into axons and enhances translation of these proteins. Required for limiting lipid storage in lipid droplets. Involved in lipid homeostasis by regulating the presence of perilipin family members PLIN2 and PLIN3 at the lipid droplet surface and promoting the association of adipocyte surface triglyceride lipase (PNPLA2) with the lipid droplet to mediate lipolysis (By similarity). Involved in the Golgi disassembly and reassembly processes during cell cycle. Involved in autophagy by playing a role in early endosome function. Plays a role in organellar compartmentalization of secretory compartments including endoplasmic reticulum (ER)-Golgi intermediate compartment (ERGIC), Golgi, trans-Golgi network (TGN) and recycling endosomes, and in biosynthetic transport of CAV1. Promotes degradation of Nef cellular targets CD4 and MHC class I antigens by facilitating their trafficking to degradative compartments.

Other Notes	Small volumes of anti-COPB1 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 COPB1 purchase	MBS1495673 is an antibody targeting COPB1. Also known as COPB1 Antibody, HRP conjugated. Reactive in Human, Mouse. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for COPB1. It may not necessarily be applicable to this product.

NCBI GI #	221316630
NCBI GeneID	1315
NCBI Accession #	NP_001137533.1
UniProt Primary Accession #	P53618
UniProt Secondary Accession #	Q6GTT7; Q9NTK2; Q9UNW7; D3DQX0
UniProt Related Accession #	P53618
GenBank Nucleotide #	NM_001144061.1
NCBI Official Full Name	coatomer subunit beta
NCBI Official Synonym Full Names	coatomer protein complex subunit beta 1
NCBI Official Symbol	COPB1
NCBI Official Synonym Symbols	COPB
UniProt Protein Name	Coatomer subunit beta
UniProt Synonym Protein Names	Beta-coat protein; Beta-COP
UniProt Gene Name	COPB1
UniProt Synonym Gene Names	COPB; Beta-COP
UniProt Entry Name	COPB_HUMAN
NCBI Protein Information	coatomer subunit beta
NCBI Summary for COPB1	This gene encodes a protein subunit of the coatomer complex associated with non-clathrin coated vesicles. The coatomer 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 coatomer complex may assist in the movement of protein and lipid components back to the endoplasmic reticulum. Alternatively spliced transcript variants have been described. [provided by RefSeq, Jan 2009]

UniProt Comments for COPB1	COPB1: 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. 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 to 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. Plays a functional role in facilitating the transport of kappa- type opioid receptor mRNAs into axons and enhances translation of these proteins. Required for limiting lipid storage in lipid droplets. Involved in lipid homeostasis by regulating the presence of perilipin family members PLIN2 and PLIN3 at the lipid droplet surface and promoting the association of adipocyte surface triglyceride lipase (PNPLA2) with the lipid droplet to mediate lipolysis. Involved in the Golgi disassembly and reassembly processes during cell cycle. Involved in autophagy by playing a role in early endosome function. Plays a role in organellar compartmentalization of secretory compartments including endoplasmic reticulum (ER)-Golgi intermediate compartment (ERGIC), Golgi, trans-Golgi network (TGN) and recycling endosomes, and in biosynthetic transport of CAV1. Promotes degradation of Nef cellular targets CD4 and MHC class I antigens by facilitating their trafficking to degradative compartments. Protein type: Vesicle; Motility/polarity/chemotaxis Chromosomal Location of Human Ortholog: 11p15.2 Cellular Component: COPI vesicle coat; cytoplasm; cytosol; ER-Golgi intermediate compartment; Golgi apparatus; Golgi membrane; Golgi-associated vesicle; intracellular membrane-bound organelle; membrane; plasma membrane; transport vesicle Molecular Function: protein binding; structural molecule activity Biological Process: cellular protein metabolic process; COPI coating of Golgi vesicle; ER to Golgi vesicle-mediated transport; intra-Golgi vesicle-mediated transport; intracellular protein transport; post-translational protein modification; protein amino acid N-linked glycosylation via asparagine; retrograde vesicle-mediated transport, Golgi to ER; viral reproduction
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