

COPZ1 Rabbit pAb

Catalog # AP100202

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	P61923
Other Accession	P61923
Reactivity	Rat
Predicted	Human, Mouse, Rabbit, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	20198
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human COPZ1
Epitope Specificity	101-177/177
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the adaptor complexes small subunit family.
Post-translational modifications	Phosphorylated upon DNA damage, probably by ATM or ATR.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	This gene encodes a subunit of the cytoplasmic coatamer protein complex, which is involved in autophagy and intracellular protein trafficking. The coatamer protein complex is comprised of seven subunits and functions as the coat protein of coat protein complex (COP)I-vesicles. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Nov 2012]

Additional Information

Gene ID	22818
Other Names	CGI-120; COPZ; HSPC181; zeta-COP; zeta1-COP; 5930435A22Rik; D4Ertd360e; COPZ1_BOVIN; COPZ1; Zeta-1-coat protein (Zeta-1 COP); COPZ1_HUMAN; COPZ1_MOUSE; coat protein complex I subunit zeta 1; COPI coat complex subunit zeta 1; coatamer protein complex, subunit zeta; coatamer protein complex, subunit zeta 1
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	COPZ1
Synonyms	COPZ
Function	Component of the coatomer complex, involved in retrograde Golgi-to-ER transport (PubMed:39642330). 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 (By similarity). The zeta subunit may be involved in regulating the coat assembly and, hence, the rate of biosynthetic protein transport due to its association-dissociation properties with the coatomer complex (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.

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