Membrane and vesicular trafficking in the early secretory pathway are mediated by non-clathrin COP (coat protein)-coated vesicles. COP-coated vesicles mediate retrograde transport from the Golgi back to the ER and intra-Golgi transport. The cytosolic precursor of the COP1 coat, the heptameric coatamer complex, is composed of two subcomplexes. The first consists of the COPB, COPG, COPD and COPZ subunits (also known as β-, γ-, δ- and ζ-COP), which are distantly homologous to AP Clathrin adaptor subunits. The second consists of the COPA, β'-COP and COPE subunits (also known as α-COP, COPP and ε-COP, respectively). The COPG (γCOP) subunit of the coatamer is believed to mediate the binding to the cytoplasmic dileucine motifs of membrane proteins. COPG has the highest level of expression in mouse testis and is expressed in a parent-of-origin-specific manner in mammals.

**REFERENCES**


**SOURCE**

COPG (A-10) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 849-874 at the C-terminus of COPG of mouse origin.

Each vial contains 200 µg IgG kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

**APPLICATIONS**

COPG (A-10) is recommended for detection of COPG of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:1500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for COPG siRNA (h): sc-37254, COPG siRNA (m): sc-35092, COPG shRNA Plasmid (h): sc-37254-SH, COPG shRNA Plasmid (m): sc-35092-SH, COPG shRNA (h) Lentiviral Particles: sc-37254-V and COPG shRNA (m) Lentiviral Particles: sc-35092-V.

Molecular Weight of COPG: 97 kDa.

Positive Controls: KNRK whole cell lysate: sc-2214, 3T3-L1 cell lysate: sc-2243 or K-562 whole cell lysate: sc-2203.

**DATA**

**SELECT PRODUCT CITATIONS**


**STORAGE**

Store at 4°C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

**RESEARCH USE**

For research use only, not for use in diagnostic procedures.

**PROTOCOLS**

See our web site at www.scbt.com for detailed protocols and support products.

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