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# COPD (m5): 293T Lysate: sc-119397

## BACKGROUND

Membrane and vesicular trafficking in the early secretory pathway are mediated by non-Clathrin COP (coat protein) I-coated vesicles. COPI-coated vesicles mediate retrograde transport from the Golgi back to the ER and intra-Golgi transport. The cytosolic precursor of the COPI coat, the heptameric coatomer complex, is composed of two subcomplexes. The first consists of the COPB, COPG, COPD and COPZ subunits (also known as  $\beta$ -,  $\gamma$ -,  $\delta$ - and  $\zeta$ -COP, respectively), which are distantly homologous to AP Clathrin adaptor subunits. The second consists of the COPA,  $\beta'$ -COP and COPE subunits (also known as  $\alpha$ -COP, COPP and  $\epsilon$ -COP, respectively).

## REFERENCES

1. Lowe, M., et al. 1995. *In vitro* assembly and disassembly of coatomer. J. Biol. Chem. 270: 31364-31371.
2. Faulstich, D., et al. 1996. Architecture of coatomer: molecular characterization of  $\delta$ -COP and protein interactions within the complex. J. Cell Biol. 135: 53-61.
3. Tunnaclyffe, A., et al. 1996. The coatomer protein  $\delta$ -COP, encoded by the archain gene, is conserved across diverse eukaryotes. Mamm. Genome 7: 784-786.
4. Cosson, P., et al. 1996.  $\delta$ - and  $\zeta$ -COP, two coatomer subunits homologous to clathrin-associated proteins, are involved in ER retrieval. EMBO J. 15: 1792-1798.
5. Chaudhary, A., et al. 1998. Specific interaction of Golgi coatomer protein  $\alpha$ -COP with phosphatidylinositol 3,4,5-trisphosphate. J. Biol. Chem. 273: 8344-8350.
6. Harter, C., et al. 1998. A single binding site for dilysine retrieval motifs and p23 within the  $\gamma$  subunit of coatomer. Proc. Natl. Acad. Sci. USA 95: 11649-11654.
7. Futatsumori, M., et al. 2000. Identification and characterization of novel isoforms of COP1 subunits. J. Biochem. 128: 793-801.
8. Eugster, A., et al. 2004. The  $\alpha$ - and  $\beta'$ -COP WD40 domains mediate cargo-selective interactions with distinct di-lysine motifs. Mol. Biol. Cell 15: 1011-1023.
9. SWISS-PROT/TrEMBL (P48444). World Wide Web URL: <http://harvester.embl.de/harvester/P484/P48444.htm>

## CHROMOSOMAL LOCATION

Genetic locus: Arcn1 (mouse) mapping to 9 A5.2.

## PRODUCT

COPD (m5): 293T Lysate represents a lysate of mouse COPD transfected 293T cells and is provided as 100  $\mu$ g protein in 200  $\mu$ l SDS-PAGE buffer.

## STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

## APPLICATIONS

COPD (m5): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive COPD antibodies. Recommended use: 10-20  $\mu$ l per lane.

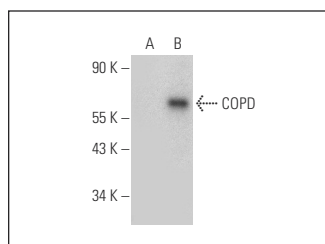
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

COPD (A-3): sc-514104 is recommended as a positive control antibody for Western Blot analysis of enhanced mouse COPD expression in COPD transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

## RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended:  
 1) Western Blotting: use m-IgG $\kappa$  BP-HRP: sc-516102 or m-IgG $\kappa$  BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

## DATA



COPD (A-3): sc-514104. Western blot analysis of COPD expression in non-transfected 293T: sc-117752 (A) and mouse COPD transfected 293T: sc-119397 (B) whole cell lysates.

## RESEARCH USE

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

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) for detailed protocols and support products.