**BACKGROUND**

Membrane and vesicular trafficking in the early secretory pathway are mediated by non-Cla thrin COP (coat protein)-l-coated vesicles. COP-coated vesicles mediate retrograde transport from the Golgi back to the ER and intra-Golgi transport. The cytosolic precursor of the COP-I coat, the heptameric coatomer 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, respectively), which are distantly homologous to AP Clathrin adaptor subunits. The second consists of the COPA, δ- and ζ-COP and COPE subunits (also known as α-, COPP, COPF and e-COP, respectively).

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: ARCN1 (human) mapping to 11q23.3; Atron1 (mouse) mapping to 9 A5.2.

**SOURCE**

COPD (A-3) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 377-401 near the C-terminus of COPD of human origin.

**PRODUCT**

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

Blocking peptide available for competition studies, sc-514104 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% stabilizer protein).

**APPLICATIONS**

COPD (A-3) is recommended for detection of COPD 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) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for COPD siRNA (h): sc-106917, COPD siRNA (m): sc-142502, COPD shRNA Plasmid (h): sc-106917-SH, COPD shRNA Plasmid (m): sc-142502-SH, COPD shRNA (h) Lentiviral Particles: sc-106917-V and COPD shRNA (m) Lentiviral Particles: sc-142502-V.

Molecular Weight of COPD: 57 kDa.

Positive Controls: COPD (m5): 293T Lysate: sc-119397, HeLa whole cell lysate: sc-2200 or NIH/3T3 whole cell lysate: sc-2210.

**RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended:


2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml).


**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.