COPB (D-10): sc-393615

BACKGROUND
Membrane and vesicular trafficking in the early secretory pathway are mediated by non-clathrin COP (coat protein) I-coated vesicles. COPB (β-COP) is a marker protein for pre-Golgi intermediates (vesicular tubular clusters or VTCs). GIV (G_{x16} 

CHROMOSOMAL LOCATION
Genetic locus: COPB1 (human) mapping to 11p15.2; Copb1 (mouse) mapping to 7 F1.

SOURCE
COPB (D-10) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 2-19 at the N-terminus of COPB of rat origin.

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

COPB (D-10) is available conjugated to agarose (sc-393615 AC), 500 μg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-393615 HRP), 200 μg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-393615 PE), fluorescent (sc-393615 FITC), Alexa Fluor® 488 (sc-393615 AF488), Alexa Fluor® 546 (sc-393615 AF546), Alexa Fluor® 594 (sc-393615 AF594) or Alexa Fluor® 647 (sc-393615 AF647), 200 μg/ml, for WB, IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-393615 AF680) or Alexa Fluor® 790 (sc-393615 AF790) or 200 μg/ml, for Near-Infrared (NIR) WB, IF and FCM.

Blocking peptide available for competition studies, sc-393615 P , (100 μg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% stabilizer protein).

APPLICATIONS
COPB (D-10) is recommended for detection of COPB 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 1:50-1:500), and solid phase ELSA (starting dilution 1:30, dilution range 1:30-1:3000). COPB (D-10) is also recommended for detection of COPB in additional species, including equine, canine, bovine, porcine and avian.


Molecular Weight of COPB: 110 kDa.

Positive Controls: C6 whole cell lysate: sc-364373.

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

DATA
β-

SELECT PRODUCT CITATIONS


3. Miyamoto, Y., et al. 2018. BIG1/Arfgef1 and Arf1 regulate the initiation of COPB (D-10) is recommended for detection of COPB 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 1:50–1:500), and solid phase ELSA (starting dilution 1:30, dilution range 1:30–1:3000). COPB (D-10) is also recommended for detection of COPB in additional species, including equine, canine, bovine, porcine and avian.


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