Alix (G-10): sc-166952

BACKGROUND
ALG-2-interacting protein (Alix), also designated programmed cell death 6-interacting protein (PDCD6-interacting protein), is a cytoplasmic protein. Alix interacts with apoptosis-associated proteins (ALG-2 and PDCD6) and with the endocytosis-regulator CIN85. Additionally, Alix interacts with the endosomal sorting complexes required for transport (ESCRT) proteins [Tsg101 and CHMP4] and can associate with HIV-1. The endophilins (SH3P4, SH3P8 and SH3P13), enzymes that change curvature of the membrane that are required for early and late steps of coated vesicle formation, also bind to Alix. Alix is involved in the concentration and sorting of cargo proteins of the multi-vesicular body for incorporation into vesicles.

CHROMOSOMAL LOCATION
Genetic locus: PDCD6IP (human) mapping to 3p22.3.

SOURCE
Alix (G-10) is a mouse monoclonal antibody raised against amino acids 463-732 mapping near the C-terminus of Alix of human origin.

PRODUCT
Each vial contains 200 µg IgG, kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin. 
Alix (G-10) is available conjugated to agarose (sc-166952 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-166952 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycocerythrin (sc-166952 PE), fluorescein (sc-166952 FITC), Alexa Fluor® 488 (sc-166952 AF488), Alexa Fluor® 546 (sc-166952 AF546), Alexa Fluor® 594 (sc-166952 AF594) or Alexa Fluor® 647 (sc-166952 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-166952 AF680) or Alexa Fluor® 790 (sc-166952 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

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

APPLICATIONS
Alix (G-10) is recommended for detection of Alix of 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 Alix siRNA (h): sc-60149, Alix shRNA Plasmid (h): sc-60149-SH and Alix shRNA (h) Lentiviral Particles: sc-60149-V.

Molecular Weight of Alix: 95 kDa.

Positive Controls: THP-1 cell lysate: sc-2238, HEL 92.1.7 cell lysate: sc-2270 or K-562 whole cell lysate: sc-2203.

RECOMMENDED SUPPORT REAGENTS
To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgG BP-HRP: sc-516102 or m-IgG 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. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use m-IgG BP-FITC: sc-516140 or m-IgG BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Hard-set Mounting Medium: sc-24941 or UltraCruz® Mounting Medium: sc-359850.

DATA
Alix (G-10) sc-166952, Western blot analysis of Alix expression in K-562 (A), HUV-EC-C (B), T-47D (C), U-87 MG (D) and HEL 92.1.7 (E) whole cell lysates.

SELECT PRODUCT CITATIONS

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

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