

Alix (1A12): sc-53540

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 (tsg 101 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 multivesicular body for incorporation into vesicles.

CHROMOSOMAL LOCATION

Genetic locus: PDCD6IP (human) mapping to 3p22.3; Pcd6ip (mouse) mapping to 9 F3.

SOURCE

Alix (1A12) is a mouse monoclonal antibody raised against full length Alix of human origin.

PRODUCT

Each vial contains 200 µg IgG₁ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Alix (1A12) is available conjugated to agarose (sc-53540 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-53540 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-53540 PE), fluorescein (sc-53540 FITC), Alexa Fluor® 488 (sc-53540 AF488), Alexa Fluor® 546 (sc-53540 AF546), Alexa Fluor® 594 (sc-53540 AF594) or Alexa Fluor® 647 (sc-53540 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-53540 AF680) or Alexa Fluor® 790 (sc-53540 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

APPLICATIONS

Alix (1A12) is recommended for detection of Alix of mouse, rat and human origin by Western Blotting (starting dilution 1:200, 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 ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for Alix siRNA (h): sc-60149, Alix siRNA (m): sc-60150, Alix shRNA Plasmid (h): sc-60149-SH, Alix shRNA Plasmid (m): sc-60150-SH, Alix shRNA (h) Lentiviral Particles: sc-60149-V and Alix shRNA (m) Lentiviral Particles: sc-60150-V.

Molecular Weight of Alix: 95 kDa.

Positive Controls: HeLa nuclear extract: sc-2120, U-937 nuclear extract: sc-2156 or Jurkat nuclear extract: sc-2132.

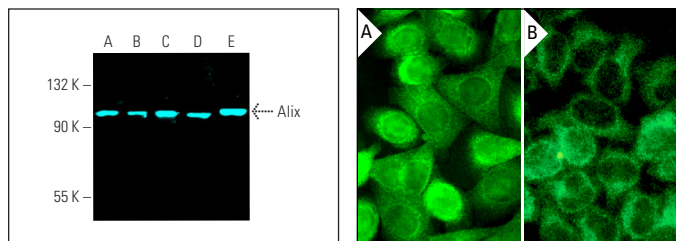
RESEARCH USE

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

STORAGE

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

DATA



Alix (1A12) Alexa Fluor® 647: sc-53540 AF647. Direct fluorescent western blot analysis of Alix expression in HeLa (A), Jurkat (B), U-937 (C) and THP-1 (D) nuclear extracts and K-562 whole cell lysate (E). Blocked with UltraCruz® Blocking Reagent: sc-516214.

Alix (1A12) Alexa Fluor® 488: sc-53540 AF488. Direct immunofluorescence staining of formalin-fixed SW480 cells showing cytoplasmic and membrane localization. Blocked with UltraCruz® Blocking Reagent: sc-516214 (A). Immunofluorescence staining of methanol-fixed HeLa cells showing cytoplasmic localization (B).

SELECT PRODUCT CITATIONS

- Molle, D., et al. 2009. Endosomal trafficking of HIV-1 gag and genomic RNAs regulates viral egress. *J. Biol. Chem.* 284: 19727-19743.
- Li, Z., et al. 2018. Vacuole-inducing compounds that disrupt endolysosomal trafficking stimulate production of exosomes by glioblastoma cells. *Mol. Cell. Biochem.* 439: 1-9.
- Song, E.S., et al. 2018. Insulin-degrading enzyme is not secreted from cultured cells. *Sci. Rep.* 8: 2335.
- Borkham-Kamphorst, E., et al. 2018. N-glycosylation of lipocalin 2 is not required for secretion or exosome targeting. *Front. Pharmacol.* 9: 426.
- Li, H., et al. 2018. A serum microRNA signature predicts trastuzumab benefit in HER2-positive metastatic breast cancer patients. *Nat. Commun.* 9: 1614.
- Arii, J., et al. 2018. ESCRT-III mediates budding across the inner nuclear membrane and regulates its integrity. *Nat. Commun.* 9: 3379.
- Endzelinš, E., et al. 2018. Extracellular vesicles derived from hypoxic colorectal cancer cells confer metastatic phenotype to non-metastatic cancer cells. *Anticancer Res.* 38: 5139-5147.
- Nam, D., et al. 2018. Characterization of Parkinson's disease-related pathogenic TMEM230 mutants. *Anim. Cells Syst.* 22: 140-147.
- Xu, H., et al. 2019. Exosomes derived from PM2.5-treated lung cancer cells promote the growth of lung cancer via the Wnt3a/β-catenin pathway. *Oncol. Rep.* 41: 1180-1188.

PROTOCOLS

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

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