SANTA CRUZ BIOTECHNOLOGY, INC.

AFAP-1L1 (H-105): sc-134653

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

Actin filament associated protein (AFAP-110) interacts directly with actin filaments through its C-terminal actin-binding domain. AFAP-110 contains additional protein-binding domains as well, and serves as an adaptor protein. By linking signaling molecules to actin filaments, AFAP-110 provides a platform for the preparation of larger signaling complexes, activates Src kinases in response to cellular signals and also directly affects actin organization as an actin filament cross-linking protein. AFAP-1L1 (actin filament-associated protein 1-like 1) is a 768 amino acid protein that, like its relative AFAP-110, contains 2 pleckstrin homology (PH) domains, which are normally found in proteins involved in intracellular signaling. AFAP-1L1 is phosphorylated upon DNA damage, probably by ATR or Atm. There are four isoforms of AFAP-1L1 that are produced as a result of alternative splicing events.

REFERENCES

1. Musacchio, A., et al. 1993. The PH domain: a common piece in the structural patchwork of signalling proteins. Trends Biochem. Sci. 18: 343-348.
2. Qian, Y., et al. 2000. The carboxy-terminus of AFAP-110 modulates direct interactions with actin filaments and regulates its ability to alter actin filament integrity and induce lamellipodia formation. Exp. Cell Res. 255: 102-113.

CHROMOSOMAL LOCATION

Genetic locus: AFAP1L1 (human) mapping to 5q32; Afap1l1 (mouse) mapping to 18 E1.

SOURCE

AFAP-1L1 (H-105) is a rabbit polyclonal antibody raised against amino acids 651-755 mapping near the C-terminus of AFAP-1L1 of human origin.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

AFAP-1L1 (H-105) is recommended for detection of AFAP-1L1 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) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

AFAP-1L1 (H-105) is also recommended for detection of AFAP-1L1 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for AFAP-1L1 siRNA (h): sc-92010, AFAP-1L1 siRNA (m): sc-140895, AFAP-1L1 shRNA Plasmid (h): sc-92010-SH, AFAP-1L1 shRNA Plasmid (m): sc-140895-SH, AFAP-1L1 shRNA (h) Lentiviral Particles: sc-92010-V and AFAP-1L1 shRNA (m) Lentiviral Particles: sc-140895-V.

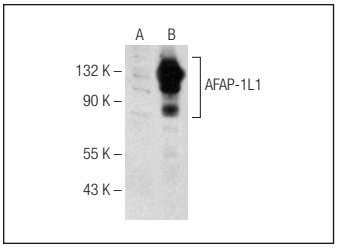
Molecular Weight of AFAP-1L1: 86 kDa.

Positive Controls: AFAP-1L1 (m): 293T Lysate: sc-178261.

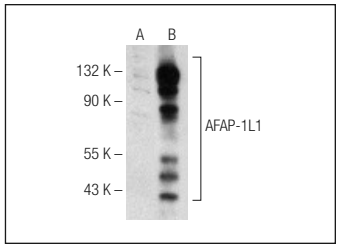
RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 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 goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



AFAP-1L1 (H-105): sc-134653. Western blot analysis of AFAP-1L1 expression in non-transfected: sc-117752 (**A**) and mouse AFAP-1L1 transfected: sc-178261 (**B**) 293T whole cell lysates.



AFAP-1L1 (H-105): sc-134653. Western blot analysis of AFAP-1L1 expression in non-transfected: sc-117752 (**A**) and mouse AFAP-1L1 transfected: sc-178262 (**B**) 293T whole cell lysates.

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.

PROTOCOLS

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