SANTA CRUZ BIOTECHNOLOGY, INC.

Lamellipodin (H-150): sc-68380

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

Lamellipodin, also called Ras-associated and Pleckstrin homology domains-containing protein 1 (RAPH1), is a 1,302 amino acid member of the MRL family. The peripheral membrane protein mediates localized membrane signals and co-localizes at the tips of filopodia and lamellipodia with ENAH/VASP. Aside from the main isoform, nine additional isoforms have been identified for Lamellipodin (RMO1, RMO1a, RMO1b, RMO1c, RMO1ab, RMO1ac, RMO1bc, RMO1abc and RMO1-RAPH1). RMO1-RAPH1 is expressed in a wide variety of tissues, most highly in brain, heart, ovary and developing embryo. RMO1 is also widely expressed, with highest amounts in liver. Lamellipodin is down-regulated in breast and ovarian cancers and shows reduced expression in metastatic osteosarcomas in comparison to primary osteosarcoma tumors.

CHROMOSOMAL LOCATION

Genetic locus: RAPH1 (human) mapping to 2q33.2; Raph1 (mouse) mapping to 1 C2.

SOURCE

Lamellipodin (H-150) is a rabbit polyclonal antibody raised against amino acids 91-240 mapping near the N-terminus of Lamellipodin 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.

STORAGE

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

APPLICATIONS

Lamellipodin (H-150) is recommended for detection of Lamellipodin 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).

Lamellipodin (H-150) is also recommended for detection of Lamellipodin in additional species, including equine and porcine.

Suitable for use as control antibody for Lamellipodin siRNA (h): sc-62539, Lamellipodin siRNA (m): sc-62540, Lamellipodin shRNA Plasmid (h): sc-62539-SH, Lamellipodin shRNA Plasmid (m): sc-62540-SH, Lamellipodin shRNA (h) Lentiviral Particles: sc-62539-V and Lamellipodin shRNA (m) Lentiviral Particles: sc-62540-V.

Molecular Weight (predicted) of full-length Lamellipodin: 135 kDa.

Molecular Weight (predicted) of Lamellipodin isoforms: 67-73 kDa.

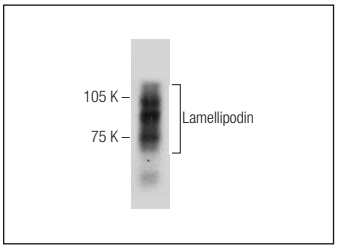
Molecular Weight (observed) of Lamellipodin: 80-100 kDa.

Positive Controls: MG-63 whole cell lysate: sc-364784.

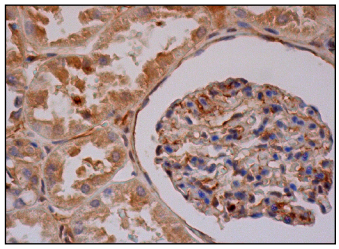
RECOMMENDED SECONDARY REAGENTS

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. 4) Immunohistochemistry: use ImmunoCruz™: sc-2051 or ABC: sc-2018 rabbit IgG Staining Systems.

DATA



Lamellipodin (H-150): sc-68380. Western blot analysis of Lamellipodin expression in MG-63 whole cell lysate.



Lamellipodin (H-150): sc-68380. Immunoperoxidase staining of formalin fixed, paraffin-embedded human kidney tissue showing cytoplasmic and membrane staining of cells in glomeruli and cytoplasmic staining of cells in tubules.

SELECT PRODUCT CITATIONS

1. Cheerathodi, M. and Ballif, B.A. 2011. Identification of CrkL-SH3 binding proteins from embryonic murine brain: implications for Reelin signaling during brain development. J. Proteome Res. 10: 4453-4462.

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.