

EML2 (N-14): sc-167745

BACKGROUND

Microtubules are components of the actin cytoskeleton that play crucial roles in cell morphogenesis, cell motility, spindle formation and chromosome movements. Echinoderm microtubule-associated (EML) proteins function to modify the assembly dynamics of microtubules. EML2 (echinoderm microtubule associated protein like 2), also known as ELP70, EMAP2 or EMAPL2, is a cytoplasmic protein that acts to elongate microtubules, while at the same time making them more dynamic. Like other members of the EML family, EML2 contains a hydrophobic ELP (HELP) domain and a large WD repeat domain, both of which allow EML2 to participate in cytoskeleton assembly.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: EML2 (human) mapping to 19q13.32; Eml2 (mouse) mapping to 7 A3.

SOURCE

EML2 (N-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of EML2 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.

Blocking peptide available for competition studies, sc-167745 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

EML2 (N-14) is recommended for detection of EML2 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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); non cross-reactive with other EML family members.

ML2 (N-14) is also recommended for detection of EML2 in additional species, including equine and canine.

Suitable for use as control antibody for EML2 siRNA (h): sc-97090, EML2 siRNA (m): sc-144643, EML2 shRNA Plasmid (h): sc-97090-SH, EML2 shRNA Plasmid (m): sc-144643-SH, EML2 shRNA (h) Lentiviral Particles: sc-97090-V and EML2 shRNA (m) Lentiviral Particles: sc-144643-V.

Molecular Weight of EML2: 71 kDa.

Positive Controls: A549 cell lysate: sc-2413 or T-47D cell lysate: sc-2293.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (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) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

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.