EML2 (F-3): sc-374627

**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**


**APPLICATIONS**

EML2 (F-3) is recommended for detection of EML2 of mouse, rat and 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 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, MCF7 whole cell lysate: sc-2206 or Neuro-2A whole cell lysate: sc-364185.

**RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended:
1) Western Blotting: use m-IgG<sub>K</sub>-HRP: sc-516102 or m-IgG<sub>K</sub>-BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz<sup>®</sup> Blockin 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<sub>K</sub>-BP-FITC: sc-516140 or m-IgG<sub>K</sub>-BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz<sup>®</sup> Mounting Medium: sc-24941 or UltraCruz<sup>®</sup> Hard-set Mounting Medium: sc-359850.

**DATA**

![Western blot analysis of EML2 expression in A549(A), MC77 (B), Neuro-2A (C) and KN92 (D) whole cell lysates.](image)

EML2 (F-3): sc-374627: Western blot analysis of EML2 expression in A549(A), MC77 (B), Neuro-2A (C) and KN92 (D) whole cell lysates.

![Immunofluorescence staining of methanol-fixed HeLa cells showing nuclear and nuclear localization.](image)

EML2 (F-3): sc-374627: Immunofluorescence staining of methanol-fixed HeLa cells showing nuclear and nuclear localization.

**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 for detailed protocols and support products.