EML6 (K-14): sc-246525



The Power to Question

BACKGROUND

EML6 (echinoderm microtubule-associated protein-like 6), also known as EMAP-6 or EML5L, is a 1,958 amino acid protein that belongs to the WD repeat EMAP family. EML6 contains 30 WD repeats, which are motifs that are found in a variety of proteins and are characterized by a conserved core of 40-60 amino acids that commonly form a tertiary propeller structure. While proteins that contain WD-repeats participate in a wide range of cellular functions, they are generally involved in regulatory mechanisms concerning chromatin assembly, cell cycle control, signal transduction, RNA processing, apoptosis and vesicular trafficking. EML6 is thought to modify the assembly dynamics of microtubules, resulting in slightly longer and more dynamic microtubules. Localized to the cytoplasm, EML6 is expressed as two isoforms produced by alternative splicing events.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: EML6 (human) mapping to 2p16.2; Eml6 (mouse) mapping to 11 A3.3.

SOURCE

EML6 (K-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of EML6 of human origin.

PRODUCT

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

Blocking peptide available for competition studies, sc-246525 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

RESEARCH USE

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

APPLICATIONS

EML6 (K-14) is recommended for detection of EML6 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g 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); non cross-reactive with other EML family members.

EML6 (K-14) is also recommended for detection of EML6 in additional species, including equine, canine and bovine.

Suitable for use as control antibody for EML6 siRNA (m): sc-142396, EML6 shRNA Plasmid (m): sc-142396-SH and EML6 shRNA (m) Lentiviral Particles: sc-142396-V.

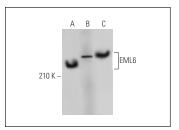
Molecular Weight of EML6 isoforms: 218/209 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200, C6 whole cell lysate: sc-364373 or Neuro-2A whole cell lysate.

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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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.

DATA



EML6 (K-14): sc-246525. Western blot analysis of EML6 expression in HeLa (A), C6 (B) and Neuro-2A (C) whole cell Ivsates.

STORAGE

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

PROTOCOLS

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