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EML4 Antibody

Store at -20C
#2428

For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: W, IP, IF-IC	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 120	Source/Isotype: Rabbit	UniProt ID: #Q9HC35	Entrez-Gene Id: 27436
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Product Usage Information

Application

Western Blotting
Immunoprecipitation
Immunofluorescence (Immunocytochemistry)

Dilution

1:1000
1:100
1:25

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.

Specificity/Sensitivity

EML4 Antibody detects endogenous levels of total EML4 protein.

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Arg91 of human EML4. Antibodies are purified by protein A and peptide affinity chromatography.

Background

Echinoderm microtubule-associated protein-like 4 (EML4) is a 120 kDa microtubule-associated WD-repeat protein of the echinoderm microtubule-associated protein family (1). The expression of EML4 is necessary for correct intracellular microtubule network formation (2). EML4 protein expression is upregulated during mitosis and downregulated during the remaining cell cycle (1). During mitosis, EML4 is heavily phosphorylated and is associated with the mitotic spindle (2). The amino-terminal segment of EML4 is essential for microtubule association and function.

Background References

1. Heidebrecht, H.J. et al. (2000) *Genomics* 68, 348-350.
2. Pollmann, M. et al. (2006) *Exp. Cell Res.* 312, 3241-3251.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting **IP:** Immunoprecipitation **IF-IC:** Immunofluorescence (Immunocytochemistry)

Cross-Reactivity Key

H: Human

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