

#12156 Store at -20°C

**EML4 (D7Y8F) XP® Rabbit mAb****Cell Signaling**  
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**For Research Use Only. Not for Use in Diagnostic Procedures.**

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB, IP, IF-IC	H M R Mk	Endogenous	120	Rabbit IgG	#Q9HC35	27436

**Product Usage Information****Application**

Western Blotting

Immunoprecipitation

Immunofluorescence (Immunocytochemistry)

**Dilution**

1:1000

1:100

1:200

**Storage**

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

**Specificity / Sensitivity**

EML4 (D7Y8F) XP® Rabbit mAb recognizes endogenous levels of total EML4 protein.

**Source / Purification**

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ser188 of human EML4 protein.

**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**

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

**Cross-Reactivity Key**

**H:** human **M:** mouse **R:** rat **Hm:** hamster **Mk:** monkey **Vir:** virus **Mi:** mink **C:** chicken **Dm:** D. melanogaster  
**X:** Xenopus **Z:** zebrafish **B:** bovine **Dg:** dog **Pg:** pig **Sc:** S. cerevisiae **Ce:** C. elegans **Hr:** horse  
**GP:** Guinea Pig **Rab:** rabbit **All:** all species expected

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