

#4203 Store at -20°C

## Eg5 (4H3-1F12) Mouse mAb



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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB, IP	H	Endogenous	120	Mouse IgG1	#P52732	3832

### Product Usage Information

#### Application

Western Blotting  
Immunoprecipitation

#### Dilution

1:2000  
1:100

### 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

Eg5 (4H3-1F12) Mouse mAb recognizes endogenous levels of total Eg5 (Kif11) protein.

### Source / Purification

Monoclonal antibody is produced by immunizing animals with a recombinant amino-terminal fragment of human Eg5 protein.

### Background

Eg5 (also called kinesin-like protein 11 or Kif11) belongs to the kinesin-like family of motor proteins important in chromosome positioning, centrosome separation, and mitotic spindle formation. Phosphorylation of Eg5 by mitotic kinases regulates its activity by modulating its association with microtubules (1,2). Because anti-mitotic chemotherapeutic drugs, such as taxanes, target microtubules and have pleiotropic and sometimes toxic effects, drugs that target microtubule-associated proteins such as Eg5 are currently in development (3-5).

### Background References

1. Blangy, A. et al. (1995) *Cell* 83, 1159-69.
2. Rapley, J. et al. (2008) *J Cell Sci* 121, 3912-21.
3. Sarli, V. and Giannis, A. (2006) *ChemMedChem* 1, 293-8.
4. Cox, C.D. et al. (2008) *J Med Chem* 51, 4239-52.
5. Nakai, R. et al. (2009) *Cancer Res* 69, 3901-9.

### 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 nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

### Applications Key

**WB:** Western Blotting **IP:** Immunoprecipitation

### 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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