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Store at -20C
#4203

Eg5 (4H3-1F12) Mouse mAb

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

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

- Blangy, A. et al. (1995) *Cell* 83, 1159-69.
- Rapley, J. et al. (2008) *J Cell Sci* 121, 3912-21.
- Sarli, V. and Giannis, A. (2006) *ChemMedChem* 1, 293-8.
- Cox, C.D. et al. (2008) *J Med Chem* 51, 4239-52.
- 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

W: Western Blotting **IP:** Immunoprecipitation

Cross-Reactivity Key

H: Human

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