

#5166 Store at -20°C

EAPP (1E4) Mouse mAb



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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB, IF-IC	H M R Mk	Endogenous	45	Mouse IgG1	#Q56P03	55837

Product Usage Information

Application

Western Blotting
Immunofluorescence (Immunocytochemistry)

Dilution

1:1000
1:800

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

EAPP (1E4) Mouse mAb detects endogenous levels of total EAPP protein.

Source / Purification

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

Background

Regulation of the E2F family of transcription factors, primarily through the retinoblastoma protein (pRb), is vital for control of cell proliferation and cell death (reviewed in 1). E2F-associated phosphoprotein (EAPP) was identified as an E2F-family binding protein that modulates E2F-regulated transcription and may be required for S phase entry. EAPP is expressed at varied levels in all tissues and cell types examined and its expression is reduced in nocodazole-arrested cells (2). Mass spectrometry studies have identified multiple EAPP phosphorylation sites including Ser109 and Ser111, but biological consequences of EAPP phosphorylation have yet to be elucidated (3-5).

Background References

1. Polager, S. and Ginsberg, D. (2008) *Trends Cell Biol* 18, 528-35.
2. Novy, M. et al. (2005) *Mol Biol Cell* 16, 2181-90.
3. Dephoure, N. et al. (2008) *Proc Natl Acad Sci U S A* 105, 10762-7.
4. Mayya, V. et al. (2009) *Sci Signal* 2, ra46.
5. Olsen, J.V. et al. (2006) *Cell* 127, 635-48.

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 **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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