

**APP (E9M5J) Rabbit mAb**

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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
IF-F, IF-IC	H	Endogenous	100-140	Rabbit IgG	#P05067	351

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

Immunofluorescence (Frozen)  
Immunofluorescence (Immunocytochemistry)

**Dilution**

1:50 - 1:100  
1:50 - 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**

APP (E9M5J) Rabbit mAb recognizes endogenous levels of total APP protein.

**Source / Purification**

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro620 of human APP protein.

**Background**

Amyloid β (Aβ) precursor protein (APP) is a 100-140 kDa transmembrane glycoprotein that exists as several isoforms (1). The amino acid sequence of APP contains the amyloid domain, which can be released by a two-step proteolytic cleavage (1). The extracellular deposition and accumulation of the released Aβ fragments form the main components of amyloid plaques in Alzheimer's disease (1). APP can be phosphorylated at several sites, which may affect the proteolytic processing and secretion of this protein (2-5). Phosphorylation at Thr668 (a position corresponding to the APP695 isoform) by cyclin-dependent kinase is cell-cycle dependent and peaks during G2/M phase (4). APP phosphorylated at Thr668 exists in adult rat brain and correlates with cultured neuronal differentiation (5,6).

**Background References**

- Selkoe, D.J. (1996) *J Biol Chem* 271, 18295-8.
- Caporaso, G.L. et al. (1992) *Proc Natl Acad Sci USA* 89, 3055-9.
- Hung, A.Y. and Selkoe, D.J. (1994) *EMBO J* 13, 534-42.
- Suzuki, T. et al. (1994) *EMBO J* 13, 1114-22.
- Ando, K. et al. (1999) *J Neurosci* 19, 4421-7.
- Iijima, K. et al. (2000) *J Neurochem* 75, 1085-91.

**Species Reactivity**

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

**Applications Key**

**IF-F:** Immunofluorescence (Frozen) **IF-IC:** Immunofluorescence (Immunocytochemistry)

**Cross-Reactivity Key**

**H:** Human

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