Store at -200

Phospho-MAP2 (Thr1620/1623) Antibody



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Applications: WB	Reactivity:	Sensitivity: Endogenous	MW (kDa): 82, 280	Source: Rabbit	UniProt ID: #P11137	Entrez-Gene Id 4133
	Н					
Product Usage	Ар	plication			Dilution	
Information	We	stern Blotting			1:1000	
Storage	•	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity / Sensitivity		Phospho-MAP2 (Thr1620/1623) Antibody detects endogenous MAP2 only when phosphorylated at threonines 1620/1623. This antibody does not cross-react with phosphorylated tau.				
Species predicte react based on 1 sequence homol	.00%	se				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Thr1620/1623 of human MAP2. Antibodies are purified by protein A and peptide affinity chromatography.				
Background	stab	Microtubule-associated protein 2 (MAP2) is a neuronal phosphoprotein that regulates the structure and stability of microtubules, neuronal morphogenesis, cytoskeleton dynamics, and organelle trafficking in axons and dendrites (1). Multiple MAP2 isoforms are expressed in neurons, including high molecular				

Background References

- 1. Sanchez, C. et al. (2000) Prog. Neurobiol. 61, 133-168.
- 2. Berling, B. et al. (1994) Eur. J. Cell Biol. 64, 120-130.
- 3. Sanchez, C. et al. (2000) Eur. J. Cell Biol. 79, 252-260.

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

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.

WB: Western Blotting **Applications Key**

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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weight MAP2A and MAP2B (280 and 270 kDa), and low molecular weight MAP2C and MAP2D (70 and 75 kDa). Phosphorylation of MAP2 modulates its association with the cytoskeleton and is developmentally regulated. GSK-3 and p44/42 MAP kinase phosphorylate MAP2 at Ser136, Thr1620, and Thr1623 (2,3). Phosphorylation at Thr1620/1623 by GSK-3 inhibits MAP2 association with microtubules and microtubule

information.

stability (3).

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