Store at -20C

MAP2 (D5G1) XP® Rabbit mAb



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Applications: WB, IP, IF-F	Reactivity: M R	Sensitivity: Endogenous	MW (kDa): 75, 82, 280	Source/Isotype: Rabbit IgG	UniProt ID: #P11137	Entrez-Gene Id: 4133	
Product Usage Information	Ар	Application			Dilution		
	We	estern Blotting			1::	1000	
	Imi	munoprecipitation			1:5	50	
	Imi	munofluorescence (Frozen)		1:2	200	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20° C. Do not aliquot the antibody.					
	For	For a carrier free (BSA and azide free) version of this product see product #65911.					
Specificity / Sens		MAP2 (D5G1) XP [®] Rabbit mAb recognizes endogenous levels of total MAP2 protein. Non-specific labeling of mouse pancreas, colon, small intestine, and liver may be observed by immunofluorescence.					
Species predicte react based on 1 sequence homol	00%	nan					
Source / Purifica		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human MAP2 protein.					
Background	ackground Microtubule-associated protein 2 (MAP2) is a neuronal phosp stability of microtubules, neuronal morphogenesis, cytoskeleto axons and dendrites (1). Multiple MAP2 isoforms are expressive weight MAP2A and MAP2B (280 and 270 kDa), and low mole kDa). Phosphorylation of MAP2 modulates its association with					elle trafficking in high molecular I 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

stability (3).

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

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, Western Blot Buffer

0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key WB: Western Blotting IP: Immunoprecipitation IF-F: Immunofluorescence (Frozen)

H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster **Cross-Reactivity Key**

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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1/1/24, 6:06 AM **Limited Uses**

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