

Rabbit MAP2 Polyclonal Antibody | anti-MAP2 antibody

Phospho-MAP2 (Thr1620/Thr1623) Antibody

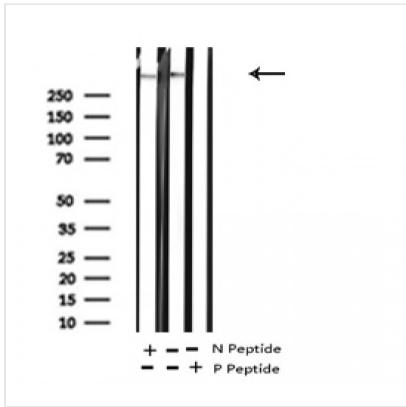
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA329443	Rabbit	Human, Mouse, Rat Predicted Reactivity: Pig (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (92%), Xenopus (92%)	ELISA, Western Blot

PRODUCT SYNONYMS

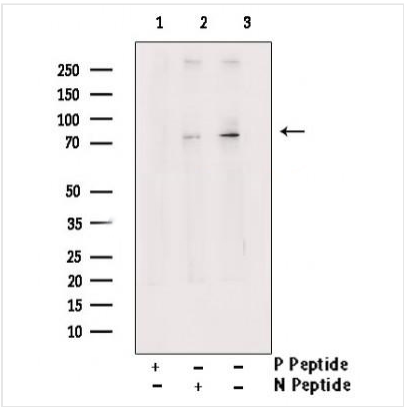
MAP2; Polyclonal Antibody; Phospho-MAP2 (Thr1620/Thr1623) Antibody; DKFZp686I2148; MAP 2; MAP dendrite specific; MAP-2; MAP2A; MAP2B; MAP2C; Microtubule associated protein 2; Microtubule-associated protein 2; MTAP2_HUMAN; anti-MAP2 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat Predicted Reactivity: Pig (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (92%), Xenopus (92%)
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Phospho-MAP2 (Thr1620/Thr1623) Antibody detects endogenous levels of MAP2 only when phosphorylated at Thr1620/1623.
Purity/Purification	The antibody is from purified rabbit serum by affinity purification via sequential chromatography on phospho-peptide and non-phospho-peptide affinity columns.
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-MAP2 antibody	ELISA (Peptide ELISA), WB (Western Blot)
Immunogen	A synthesized peptide derived from human MAP2 around the phosphorylation site of Thr1620/1623.
Conjugation	Unconjugated
Fragment	Fab fragment
Post Translational Modifications	Phosphorylated at serine residues in K-X-G-S motifs by MAP/microtubule affinity-regulating kinase (MARK1 or MARK2), causing detachment from microtubules, and their disassembly (By similarity). Isoform 2 is probably phosphorylated by PKA at Ser-323, Ser-354 and Ser-386 and by FYN at Tyr-67. The interaction with KNDC1 enhances MAP2 threonine phosphorylation (By similarity).
Subunit Structure	Interacts with KNDC1 (via KIND2); the interaction enhances MAP2 phosphorylation and localizes KNDC1 to dendrites.
Subcellular Location	Cytoplasm>Cytoskeleton. Cell projection>Dendrite.
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



WB (Western Blot)
Western blot analysis of Phospho-MAP2 (Thr1620/1623) in lysates of COS , using Phospho-MAP2 (Thr1620/1623) Antibody(AF4402).



WB (Western Blot)
Western blot analysis of extracts from COS , using Phospho-MAP2 (Thr1620/1623) Antibody. Lane1 was treated with phospho-blocking peptide, Lane2 was treated with non-phospho-blocking peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-MAP2 antibody	The exact function of MAP2 is unknown but MAPs may stabilize the microtubules against depolymerization. They also seem to have a stiffening effect on microtubules.
--	---

NCBI AND UNIPROT INFORMATION

NCBI GI #	87578396
NCBI GeneID	4133
NCBI Accession #	NP_002365.3
NCBI GenBank Nucleotide #	NM_002374.3
UniProt Accession #	P11137; Q17S04; Q8IUX2; Q99975; Q99976
Molecular Weight	199,526 Da
NCBI Official Full Name	microtubule-associated protein 2 isoform 1
NCBI Official Synonym Full Names	microtubule-associated protein 2
NCBI Official Symbol	MAP2
NCBI Official Synonym Symbols	MAP2A; MAP2B; MAP2C
NCBI Protein Information	microtubule-associated protein 2; MAP-2
UniProt Protein Name	Microtubule-associated protein 2
UniProt Gene Name	MAP2
UniProt Synonym Gene Names	MAP-2
UniProt Entry Name	MTAP2_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.