



MAP-4 Polyclonal Antibody

Catalog No	YP-Ab-03148
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	IHC;IF;ELISA
Gene Name	MAP4
Immunogen	The antiserum was produced against synthesized peptide derived from human MAP4. AA range:662-711
Specificity	MAP-4 Polyclonal Antibody detects endogenous levels of MAP-4 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	Immunohistochemistry: 1/100 - 1/300. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/5000. Not yet tested in other applications.
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	MAP 4;MAP4;Microtubule-associated protein 4;MAP-4
Observed Band	
Calculated Molecular Weight	
Cell Pathway	Cytoplasm, cytoskeleton . Cytoplasm, cytoskeleton, microtubule organizing center . Recruitment to microtubule is inhibited by microtubules polyglutamylation. .
Tissue Specificity	Bone marrow,Brain,Cerebellum,Colon carcinoma,Epithelium,Eye,Heart,Liver,Lym
Function	alternative products:Additional isoforms seem to exist,caution:The sequence shown here is derived from an Ensembl automatic analysis pipeline and should be considered as preliminary data.,function:Non-neuronal microtubule-associated protein. Promotes microtubule assembly.,PTM:Phosphorylated upon DNA damage, probably by ATM or ATR (By similarity). Phosphorylation on Ser-787 negatively regulates MAP4 activity to promote microtubule assembly. Isoform 3 is phosphorylated on Ser-337 and Ser-338.,similarity:Contains 3 Tau/MAP repeats.,similarity:Contains 4 Tau/MAP repeats.,



Background

The protein encoded by this gene is a major non-neuronal microtubule-associated protein. This protein contains a domain similar to the microtubule-binding domains of neuronal microtubule-associated protein (MAP2) and microtubule-associated protein tau (MAPT/TAU). This protein promotes microtubule assembly, and has been shown to counteract destabilization of interphase microtubule catastrophe promotion. Cyclin B was found to interact with this protein, which targets cell division cycle 2 (CDC2) kinase to microtubules. The phosphorylation of this protein affects microtubule properties and cell cycle progression. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Aug 2008],

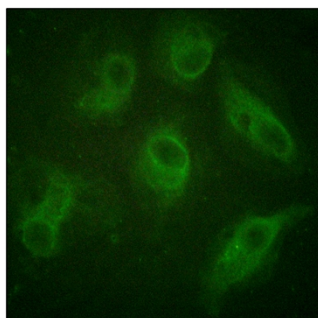
matters needing attention

Avoid repeated freezing and thawing!

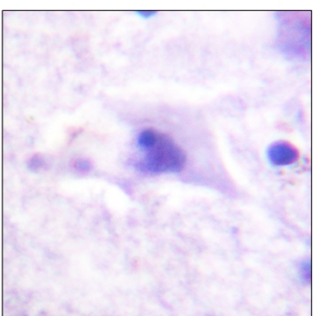
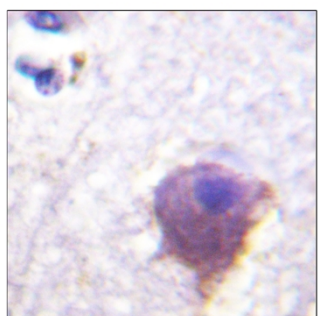
Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



Immunofluorescence analysis of HeLa cells, using MAP4 Antibody. The picture on the right is blocked with the synthesized peptide.



Immunohistochemistry analysis of paraffin-embedded human brain tissue, using MAP4 Antibody. The picture on the right is blocked with the synthesized peptide.