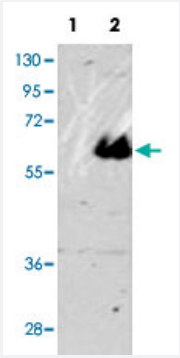
MAPT polyclonal antibody

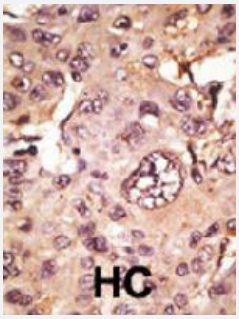
Catalog # PAB3865 Size 400 uL

Applications



Western Blot (Transfected lysate)

Western blot analysis of MAPT (arrow) using MAPT polyclonal antibody (Cat # PAB3865).
293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the MAPT gene (Lane 2).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Formalin-fixed and paraffin-embedded human hepatocellular carcinoma tissue reacted with MAPT polyclonal antibody (Cat # PAB3865) , which was peroxidase-conjugated to the secondary antibody, followed by AEC staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of MAPT.
Immunogen	A synthetic peptide (conjugated with KLH) corresponding to C-terminus of human MAPT.
Host	Rabbit
Reactivity	Human
Form	Liquid
Purification	Protein G purification

Recommend Usage	Immunofluorescence (1:10-50) Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (1:25) Western Blot (1:1000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.09% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

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- Immunofluorescence

Gene Info — MAPT

Entrez GeneID	4137
Protein Accession#	NP_058519;P10636
Gene Name	MAPT
Gene Alias	DDPAC, FLJ31424, FTDP-17, MAPTL, MGC138549, MSTD, MTBT1, MTBT2, PPND, TAU
Gene Description	microtubule-associated protein tau
Omim ID	157140 168600 172700 260540 600274 601104
Gene Ontology	Hyperlink

Gene Summary	This gene encodes the microtubule-associated protein tau (MAPT) whose transcript undergoes c omplex, regulated alternative splicing, giving rise to several mRNA species. MAPT transcripts are differentially expressed in the nervous system, depending on stage of neuronal maturation and ne uron type. MAPT gene mutations have been associated with several neurodegenerative disorder s such as Alzheimer's disease, Pick's disease, frontotemporal dementia, cortico-basal degenerat ion and progressive supranuclear palsy. [provided by RefSeq
Other Designations	G protein beta1/gamma2 subunit-interacting factor 1|microtubule-associated protein tau, isoform 4

Publication Reference

- Reduction of detyrosinated microtubules and Golgi fragmentation are linked to tau-induced degeneration in astrocytes.

  Yoshiyama Y, Zhang B, Bruce J, Trojanowski JQ, Lee VM.

  The Journal of Neuroscience 2003 Nov; 23(33):10662.

  Application: IF, WB-Tr, Rat, Astrocytes

- Nitration of tau protein is linked to neurodegeneration in tauopathies.

  Horiguchi T, Uryu K, Giasson BI, Ischiropoulos H, LightFoot R, Bellmann C, Richter-Landsberg C, Lee VM, Trojanowski JQ.

  The American Journal of Pathology 2003 Sep; 163(3):1021.

  Application: IEM, IHC, Human, Rat, Oligodendroglia cells, Brain

- Caspase cleavage of tau: linking amyloid and neurofibrillary tangles in Alzheimer's disease.

  Gamblin TC, Chen F, Zambrano A, Abraha A, Lagalwar S, Guillozet AL, Lu M, Fu Y, Garcia-Sierra F, LaPointe N, Miller R, Berry RW, Binder LI, Cryns VL.

  PNAS 2003 Aug; 100(17):10032.

  Application: WB-Re, Recombinant protein

Pathway

- MAPK signaling pathway

Disease

- Alzheimer disease
- Amyloidosis

- Amyotrophic lateral sclerosis
- Aphasia
- Atherosclerosis
- Atrophy
- Autistic Disorder
- Brain Concussion
- Brain Diseases
- Brain Ischemia
- Cardiovascular Diseases
- Carotid Stenosis
- Cleft Lip
- Cleft Palate
- Cognition
- Cognition Disorders
- Craniofacial Abnormalities
- Creutzfeldt-Jakob Syndrome
- Dementia
- Depressive Disorder
- Diabetes Complications
- Disease Progression
- Dystonia
- Frontotemporal Dementia
- Frontotemporal Lobar Degeneration
- Genetic Predisposition to Disease
- Hallucinations
- Huntington disease

- Inversion
- Memory Disorders
- Mental Retardation
- Mental Status Schedule
- Metabolic Syndrome X
- Mouth Abnormalities
- Movement Disorders
- Myocardial Infarction
- Neoplasms
- Nerve Degeneration
- Neurodegenerative Diseases
- Neuropsychological Tests
- Osteoporosis
- Ovarian cancer
- Ovarian Neoplasms
- Parkinson disease
- Parkinsonian Disorders
- Perceptual Disorders
- Pick Disease of the Brain
- Prion Diseases
- Psychomotor Disorders
- Psychomotor Performance
- Psychotic Disorders
- Schizophrenia
- Supranuclear Palsy
- Syndrome

- Tauopathies
- Thrombosis
- Tourette Syndrome
- Visual Perception