MAP2 Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	MAP2, Recombinant Protein
Full Product Name	Recombinant Human MAP2 protein (His tag)
Product Gene Name	MAP2 recombinant protein
Product Synonym Names	MAP-2
Sequence	Asp300-Pro 500
Host	E coli
Form/Format	Lyophilized from sterile PBS, pH 7.4. Normally 5%-8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Purity/Purification	>80% as determined by reducing SDS-PAGE.
Preparation and Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80 degree C. Reconstituted protein solution can be stored at 4-8 degree C for 2-7 days. Aliquots of reconstituted samples are stable at < -20 degree C for 3 months.
Molecular Weight	199,526 Da
Chromosome Location	Chromosome: 2; NC_000002.11 (210288771..210598834). Location: 2q34-q35
OMIM	157130
3D Structure	ModBase 3D Structure for P11137
Species	Human
Tag	N-His
Endotoxin	<10EU/mg of the protein as determined by the LAL method.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.5mg/mL. Concentration is measured by UV-Vis.
Product Categories/Family for MAP2 recombinant protein	Proteins; Recombinant Proteins; Others; Neuroscience; Signal Transduction; Stem Cells
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for MAP2 recombinant protein	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.
Other Notes	Small volumes of MAP2 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for MAP2 purchase	MBS2580412 is a recombinant protein targeting MAP2. Also known as Recombinant Human MAP2 protein (His tag). Host: E coli.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MAP2. It may not necessarily be applicable to this product.

NCBI GI #	87578396

NCBI GeneID	4133
NCBI Accession #	NP_002365.3
UniProt Primary Accession #	P11137
UniProt Secondary Accession #	Q17S04; Q8IUX2; Q99975; Q99976
UniProt Related Accession #	P11137
GenBank Nucleotide #	NM_002374.3
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
UniProt Protein Name	Microtubule-associated protein 2
Protein Family	Microtubule-associated protein
UniProt Gene Name	MAP2
UniProt Synonym Gene Names	MAP-2
UniProt Entry Name	MTAP2_HUMAN
NCBI Protein Information	microtubule-associated protein 2; MAP-2
NCBI Summary for MAP2	This gene encodes a protein that belongs to the microtubule-associated protein family. The proteins of this family are thought to be involved in microtubule assembly, which is an essential step in neurogenesis. The products of similar genes in rat and mouse are neuron-specific cytoskeletal proteins that are enriched in dentrites, implicating a role in determining and stabilizing dentritic shape during neuron development. A number of alternatively spliced variants encoding distinct isoforms have been described. [provided by RefSeq, Jan 2010]
UniProt Comments for MAP2	MAP2: a member of the microtubule-associated protein (MAP) family. Its exact function is unknown but MAPs appear to stabilize the microtubules against depolymerization. They also seem to have a stiffening effect on microtubules. Expressed at high levels in neural tissue and the prostate. Four alternatively spliced transcript variants have been reported. Protein type: Cytoskeletal; Motility/polarity/chemotaxis Chromosomal Location of Human Ortholog: 2q34-q35 Cellular Component: microtubule; microtubule associated complex; cell soma; cytoplasm; nucleolus; dendritic shaft Molecular Function: calmodulin binding; protein binding; microtubule binding; structural molecule activity Biological Process: axonogenesis; dendrite morphogenesis; microtubule bundle formation; neurite development; central nervous system neuron development
Research Articles on MAP2	**1.** MAP-2 and nestin participate in the regulation of the development of gastric tissues in human embryos.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.

Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/recombinant-protein/map2/2580412