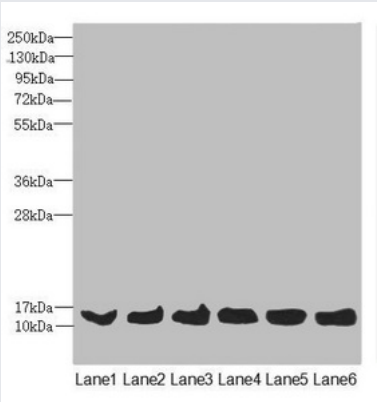
MAGOH Antibody – Rabbit Polyclonal

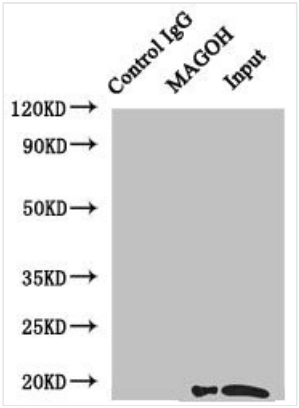
PRODUCT OVERVIEW

Product Name	MAGOH, Polyclonal Antibody
Full Product Name	MAGOH Antibody
Product Gene Name	anti-MAGOH antibody
Product Synonym Names	Protein mago nashi homolog; MAGOH; MAGOHA
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Liquid
Purity/Purification	Antigen Affinity Purified
Preparation and Storage	Shipped at 4 degree C. Upon delivery aliquot and store at -20 degree C or -80 degree C. Avoid repeated freeze.
Molecular Weight	12,844 Da
OMIM	602603
3D Structure	ModBase 3D Structure for P61326
Species	Human
Immunogen	Recombinant human Protein mago nashi homolog protein (1-146AA)
Conjugate	Non-conjugated
Buffer	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Santa Cruz Alternative	Potential replacement for Santa Cruz Biotechnology antibody catalog# sc-48237 / sc-48239 / sc-48240 / sc-99124
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-MAGOH antibody	ELISA (EIA), Western Blot (WB), Immunoprecipitation (IP)
Related Product Information for anti-MAGOH antibody	Core component of the splicing-dependent multiprotein exon junction complex (EJC) deposited at splice junctions on mRNAs. The EJC is a dynamic structure consisting of core proteins and several peripheral nuclear and cytoplasmic associated factors that join the complex only transiently either during EJC assembly or during subsequent mRNA metabolism. The EJC marks the position of the exon-exon junction in the mature mRNA for the gene expression machinery and the core components remain bound to spliced mRNAs throughout all stages of mRNA metabolism thereby influencing downstream processes including nuclear mRNA export, subcellular mRNA localization, translation efficiency and nonsense-mediated mRNA decay (NMD). The MAGOH-RBM8A heterodimer inhibits the ATPase activity of EIF4A3, thereby trapping the ATP-bound EJC core onto spliced mRNA in a stable conformation. The MAGOH-RBM8A heterodimer interacts with the EJC key regulator PYM1 leading to EJC disassembly in the cytoplasm and translation enhancement of EJC-bearing spliced mRNAs by recruiting them to the ribosomal 48S preinitiation complex. Involved in the splicing modulation of BCL2L1/Bcl-X (and probably other apoptotic genes); specifically inhibits formation of proapoptotic isoforms such as Bcl-X(S); the function is different from the established EJC assembly.
Other Notes	Small volumes of anti-MAGOH antibody 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 MAGOH purchase	MBS7046450 is an antibody targeting MAGOH. Also known as MAGOH Antibody. Reactive in Human, Mouse. Host: Rabbit.



Western Blot (WB) of anti-MAGOH antibody
Western blotAll lanes: MAGOH antibody at 4.36 ug/mlLane 1: Mouse kidney tissueLane 2: A431 whole cell lysateLane 3: Jurkat whole cell lysateLane 4: Raji whole cell lysateLane 5: K562 whole cell lysateLane 6: Hela whole cell lysateSecondaryGoat polyclonal to rabbit IgG at 1/10000 dilutionPredicted band size: 18,13 kDaObserved band size: 17 kDa



Immunoprecipitation (IP) of anti-MAGOH antibody
Immunoprecipitating MAGOH in HeLa whole cell lysateLane 1: Rabbit monoclonal IgG(1ug)instead of MBS7046450 in HeLa whole cell lysate. For western blotting, a HRP-conjugated anti-rabbit IgG, specific to the non-reduced form of IgG was used as the Secondary antibody (1/50000)Lane 2: MBS7046450(4ug)+ HeLa whole cell lysate(500ug)Lane 3: HeLa whole cell lysate (20ug)

ADDITIONAL DETAILS

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

NCBI GI #	4505087
NCBI GeneID	4116
NCBI Accession #	NP_002361.1
UniProt Primary Accession #	P61326
UniProt Secondary Accession #	O35169; P50606; Q5SW69; B1ARP8; B2R5A2
UniProt Related Accession #	P61326
GenBank Nucleotide #	NM_002370.3
NCBI Official Full Name	protein mago nashi homolog
NCBI Official Synonym Full Names	mago homolog, exon junction complex core component
NCBI Official Symbol	MAGOH
NCBI Official Synonym Symbols	MAGOH1; MAGOHA
UniProt Protein Name	Protein mago nashi homolog
Protein Family	Protein mago nashi
UniProt Gene Name	MAGOH
UniProt Synonym Gene Names	MAGOHA
UniProt Entry Name	MGN_HUMAN
NCBI Protein Information	protein mago nashi homolog
NCBI Summary for MAGOH	Drosophila that have mutations in their mago nashi (grandchildless) gene produce progeny with defects in germplasm assembly and germline development. This gene encodes the mammalian mago nashi homolog. In mammals, mRNA expression is not limited to the germ plasm, but is expressed ubiquitously in adult tissues and can be induced by serum stimulation of quiescent fibroblasts. [provided by RefSeq, Jul 2008]

UniProt Comments for MAGOH	MAGOH: Component of a splicing-dependent multiprotein exon junction complex (EJC) deposited at splice junction on mRNAs. The EJC is a dynamic structure consisting of a few core proteins and several more peripheral nuclear and cytoplasmic associated factors that join the complex only transiently either during EJC assembly or during subsequent mRNA metabolism. Core components of the EJC, that remains bound to spliced mRNAs throughout all stages of mRNA metabolism, functions to mark the position of the exon-exon junction in the mature mRNA and thereby influences downstream processes of gene expression including mRNA splicing, nuclear mRNA export, subcellular mRNA localization, translation efficiency and nonsense-mediated mRNA decay (NMD). Remains associated with the mRNA after its export to the cytoplasm and require translation of the mRNA for removal. The heterodimer MAGOH-RBM8A interacts with PYM that function to enhance the translation of EJC-bearing spliced mRNAs by recruiting them to the ribosomal 48S preinitiation complex. Belongs to the mago nashi family. Protein type: Spliceosome; RNA splicing Chromosomal Location of Human Ortholog: 1p32.3 Cellular Component: cytosol; nucleoplasm; nucleus Molecular Function: protein binding Biological Process: mRNA 3'-end processing; mRNA catabolic process, nonsense-mediated decay; mRNA export from nucleus; nuclear mRNA splicing, via spliceosome; regulation of alternative nuclear mRNA splicing, via spliceosome; RNA export from nucleus; termination of RNA polymerase II transcription
Research Articles on MAGOH	**1.** findings show 2 genes MAGOH and MAGOHB are expressed in mammals; in macrophages, expression of MAGOHB but not MAGOH mRNA increases after LPS stimulation; both MAGOH proteins interact with other exon junction complex (EJC) components, incorporate into mRNA-bound EJCs and activate nonsense-mediated decay
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