



Rabbit Anti-MAGOH antibody

SL11882R

Product Name:	MAGOH
Chinese Name:	增殖相关蛋白MAGOH抗体
Alias:	Mago nashi homolog proliferation associated (Drosophila); Mago nashi protein homolog ; magoh; MGN HUMAN; Protein mago nashi homolog.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,Cow,Rabbit,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	17kDa
Cellular localization:	The nucleuscytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human MAGOH:51-146/146
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	MAGOH, the human homolog of Drosophila mago nashi, is required for embryo development. MAGOH is ubiquitously expressed in adult tissues. It has an unusual structure consisting of an extremely flat, six-stranded anti-parallel β sheet packed next to two helices. MAGOH interacts with the Y14 protein to form a complex that plays a crucial role in postsplicing processing (including nuclear export and cytoplasmic localization of the mRNA) and in the nonsense-mediated mRNA decay (NMD)

surveillance process. The MAGOH-Y14 complex remains persistently associated in the same position on the mRNA after its export to the cytoplasm and requires translation of the mRNA for removal. This complex may illustrate the mechanism of the pre-mRNA splicing machinery for forming a stable exon-exon junction complex-mRNA at splice junctions.

Function:

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.

Subunit:

Heterodimer with RBM8A. Part of the EJC core complex that contains CASC3, EIF4A3, MAGOH and RBM8A. Found in a mRNA splicing-dependent exon junction complex (EJC), at least composed of ACIN1, CASC3, EIF4A3, MAGOH, NCBP1, NCBP2, PNN, RBM8A, RNPS1, SRRM1, NXF1, SAP18, UPF3B, UPF2 and ALYREF/THOC4. Interacts with WIBG/PYM; the interaction is direct and leads to dissociate the EJC from spliced mRNAs. Identified in the spliceosome C complex.

Subcellular Location:

Nucleus. Nucleus speckle. Cytoplasm.

Tissue Specificity:

Ubiquitous.

Similarity:

Belongs to the mago nashi family.

SWISS:

P61326

Gene ID:

4116

Database links:

[Entrez Gene: 374226](#)Chicken

[Entrez Gene: 505417](#)Cow

[Entrez Gene: 4116](#)Human

[Entrez Gene: 17149](#)Mouse

[Entrez Gene: 298385](#)Rat

[Omim: 602603](#)Human

[SwissProt: P50594](#)Chicken

[SwissProt: Q3ZBV3](#)Cow

[SwissProt: P61326](#)Human

[SwissProt: P61327](#)Mouse

[SwissProt: Q27W02](#)Rat

[Unigene: 1861](#)Chicken

[Unigene: 53423](#)Cow

[Unigene: 421576](#)Human

[Unigene: 808](#)Mouse

[Unigene: 8332](#)Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.