

Product datasheet

Anti-MAGOH antibody ab38768

★★★★★ 1 Abreviews 5 References 4 Images

Overview

| | |
|----------------------------|---|
| Product name | Anti-MAGOH antibody |
| Description | Rabbit polyclonal to MAGOH |
| Host species | Rabbit |
| Tested applications | Suitable for: WB, ICC/IF, IP, IHC-P |
| Species reactivity | Reacts with: Mouse, Human Predicted to work with: Rat, Chicken, Cow, Xenopus laevis, Drosophila melanogaster, Zebrafish |
| Immunogen | Synthetic peptide corresponding to Human MAGOH aa 1-100 conjugated to keyhole limpet haemocyanin. (Peptide available as ab28608) |
| Positive control | Recombinant Human MAGOH protein (ab95308) can be used as a positive control in WB. HeLa (Human epithelial carcinoma cell line) Whole Cell Lysate, Jurkat (Human T cell lymphoblast-like cell line) Whole Cell Lysate, A431 (Human epithelial carcinoma cell line) Whole Cell Lysate |

Properties

| | |
|-----------------------------|--|
| Form | Liquid |
| Storage instructions | Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle. |
| Storage buffer | Preservative: 0.02% Sodium Azide Constituents: 1% BSA, PBS. pH 7.4 |
| Purity | Immunogen affinity purified |
| Clonality | Polyclonal |
| Isotype | IgG |

Applications

Our [Abpromise guarantee](#) covers the use of **ab38768** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

| Application | Abreviews | Notes |
|-------------|-----------|-------|
| WB | | |
| ICC/IF | ★★★★☆ | |
| IP | | |
| IHC-P | | |

Application notes

IHC-P: Use at a concentration of 1 µg/ml. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

ICC/IF: 1/200 (please refer to abreview for further details).

WB: Use at a concentration of 1 µg/ml. Detects a band of approximately 17 kDa (predicted molecular weight: 17 kDa). This antibody also detects a band of approximately 37 kDa which we believe to be unreduced complex containing MAGOH.

Not yet tested in other applications.
Optimal dilutions/concentrations should be determined by the end user.

Target

Function

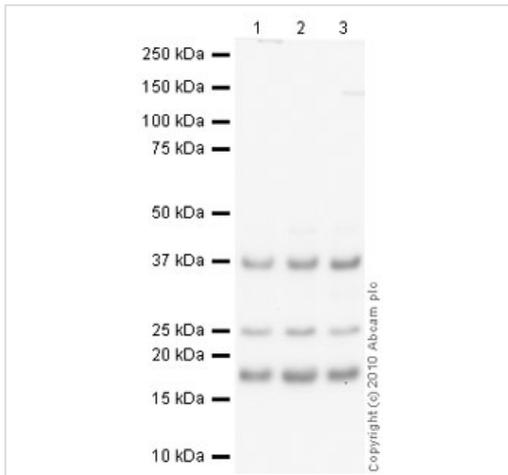
Component of a splicing-dependent multiprotein exon junction complex (EJC) deposited at splice junction on mRNAs. The EJC is a dynamic structure consisting of a few core proteins and several more peripheral nuclear and cytoplasmic associated factors that join the complex only transiently either during 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.

Tissue specificity Ubiquitous.

Sequence similarities Belongs to the mago nashi family.

Cellular localization Nucleus. Nucleus speckle. Cytoplasm. Detected in granule-like structures in the dendroplasm (By similarity). Travels to the cytoplasm as part of the exon junction complex (EJC) bound to mRNA. Colocalizes with the core EJC, THOC4, NXF1 and UAP56 in the nucleus and nuclear speckles.

Images



Western blot - Anti-MAGOH antibody (ab38768)

All lanes : Anti-MAGOH antibody (ab38768) at 1 µg/ml

Lane 1 : HeLa (Human epithelial carcinoma cell line) Whole Cell Lysate

Lane 2 : Jurkat (Human T cell lymphoblast-like cell line) Whole Cell Lysate

Lane 3 : A431 (Human epithelial carcinoma cell line) Whole Cell Lysate

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : Goat polyclonal to Rabbit IgG - H&L - Pre-Adsorbed (HRP) at 1/3000 dilution

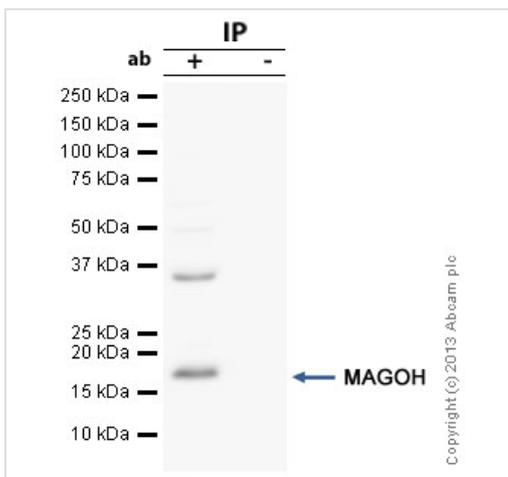
Performed under reducing conditions.

Predicted band size: 17 kDa

Observed band size: 17 kDa

Additional bands at: 26 kDa, 37 kDa. We are unsure as to the identity of these extra bands.

Exposure time: 3 minutes



Immunoprecipitation - Anti-MAGOH antibody (ab38768)

MAGOH was immunoprecipitated using 0.5mg Hela whole cell extract, 5µg of Rabbit polyclonal to MAGOH and 50µl of protein G magnetic beads (+). No antibody was added to the control (-).

The antibody was incubated under agitation with Protein G beads for 10min, Hela whole cell extract lysate diluted in RIPA buffer was added to each sample and incubated for a further 10min under agitation.

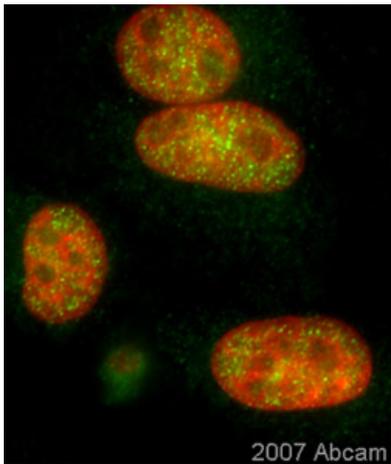
Proteins were eluted by addition of 40µl SDS loading buffer and incubated for 10min at 70°C; 10µl of each sample was separated on a SDS PAGE gel, transferred to a nitrocellulose membrane, blocked with 5% BSA and probed with ab38768.

Secondary: Mouse monoclonal [SB62a] Secondary Antibody to Rabbit IgG light chain (HRP) ([ab99697](#)).

Band: 17kDa, non specific bands - 37kDa: We are unsure as to the

identity of this extra band;

MAGOH



ab38768 staining MAGOH in HeLa cells (green). Cells were fixed in Paraformaldehyde and counterstained with DAPI (red). Please refer to abreview for further details.

Immunocytochemistry/ Immunofluorescence - Anti-MAGOH antibody (ab38768)

This image is courtesy of an Abreview submitted by Dr Kirk McManus

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MAGOH antibody (ab38768)

IHC image of MAGOH staining in human cerebral cortex FFPE section, performed on a Bond™ system using the standard protocol F. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20 mins. The section was then incubated with ab38768, 1µg/ml, for 8 mins at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

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