ProductInformation

ANTI-SLIPR/MAGI3
Developed in Rabbit
Affinity Isolated Antibody

Product Number **S 1190**

Product Description

Anti-SLIPR/MAGI 3 is developed in rabbit using a synthetic peptide corresponding to amino acids 835-850 of rat SLIPR, conjugated to keyhole limpet hemocyanin (KLH) through a N-terminal added lysine residue. The antibody is affinity-purified using the immunogen peptide immobilized on agarose.

Anti SLIPR/MAGI3 reacts specifically with rat SLIPR/MAGI3 by immunoblotting and indirect immunofluorescence. Staining of SLIPR/MAGI3 in immunoblotting is specifically inhibited by the immunizing peptide.

The MAGUK family (Membrane-Associated Guanylate Kinase) family of proteins, whose prototypic member is PS95, is characterized by the presence of multi-PDZ and SH3 domains, and a single region of homology to *Saccharomyces cerevisiae* guanylate kinase (GuK) domain.[1] All MAGUKs studied to date localize to regions of cell-cell contact, such as tight junctions in epithelial cells and synaptic junctions in neurons, and are believed to be involved in the assembly of multiprotein complexes via their protein-protein interaction domains.[2] Using different screening assays, three closely related MAGUK proteins were isolated: MAGI1/BAP1, r-SCAM/MAGI-2/ARIP, and SLIPR/MAGI3. In these proteins, the SH3 domains are replaced with a WW domain. Different components interacting with these proteins in a complex were identified.[3-8]

SLIPR/MAGI3 was shown to interact with the protein phosphatase PTEN through one of its PDZ domains.[8] PTEN is a tumor suppressor which acts through the PI3 kinase pathway; loss of PTEN results in enhanced AKT/PKB kinase activation and resistance to apoptosis.[9] Apparently, MAGI3 serves to position the phosphatase to specific subcellular locations that are involved in the regulation of cell proliferation and survival. More recently, it was shown that MAGI-2 also interacts with PTEN.[7]

Reagent

The product is supplied as an approximately 1.0 mg/ml solution in 0.01 M phosphate buffered saline, pH 7.4, containing 1% bovine serum albumin (BSA) and 15 mM sodium azide.

Precautions and Disclaimer

Due to the sodium azide content, a material safety data sheet (MSDS) for this product has been sent to the attention of the safety officer of your institution. Consult the MSDS for information regarding hazardous and safe handling practices.

Storage/Stability

For continuous use, store at 2-8 °C for up to one month. For prolonged storage, freeze in working aliquots at –20 °C. Repeated freezing and thawing is not recommended. Storage in "frost-free" freezers is also not recommended. If slight turbidity occurs upon prolonged storage, clarify the solution by centrifugation before use. Working dilution samples should be discarded if not used within 12 hours.

Product Profile

At least 1.0 µg/ml of the antibody can detect rat SLIPR by immunoblotting using transiently transfected 293-T cell extracts.

At least 2.0 µg/ml of the antibody detects rat SLIPR by indirect immunofluorescence staining of methanol-acetone fixed transiently transfected 293-T cells.

Note: In order to obtain best results in different techniques and preparations we recommend determining optimal working dilutions by titration test.

References

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