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MRVI1 Antibody (N-term) Blocking peptide
Synthetic peptide
Catalog # BP13441a

Specification

MRVI1 Antibody (N-term) Blocking peptide - Product Information

Primary Accession Q9Y6F6

MRVI1 Antibody (N-term) Blocking peptide - Additional Information

Gene ID 10335

Other Names
Protein MRVI1, Inositol 1, 5-trisphosphate receptor-associated cGMP kinase substrate, JAW1-related protein MRVI1, MRVI1, IRAG, JAW1L

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP13441a was selected from the N-term region of MRVI1. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

MRVI1 Antibody (N-term) Blocking peptide - Protein Information

Name IRAG1 (HGNC:7237)

Synonyms IRAG, JAW1L, MRVI1

Function
Plays a role as NO/PRKG1-dependent regulator of IP3-induced calcium release; its phosphorylation by PRKG1 inhibits bradykinin and IP3-induced calcium release from intracellular stores. Recruits PRKG1 to the endoplasmic reticulum and may mediate the assembly of PRKG1 and ITPR1 in a macrocomplex. Involved in PRKG1 signaling cascade leading to inhibition of platelet activation and aggregation. Mediates also NO- dependent inhibition of calcium signaling in gastrointestinal smooth muscle contributing to NO-dependent relaxation.

Cellular Location
Cytoplasm, perinuclear region. Sarcoplasmic reticulum. Membrane; Single-pass membrane protein

Tissue Location
Expressed in the colon, rectum, and cultured colonic smooth muscle. Detected in various cancer cell lines

MRVI1 Antibody (N-term) Blocking peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides

MRVI1 Antibody (N-term) Blocking peptide - Images

MRVI1 Antibody (N-term) Blocking peptide - Background

This gene is similar to a putative mouse tumor suppressorgene (Mrvi1) that is frequently disrupted by mouse AIDS-relatedvirus (MRV). The encoded protein, which is found in the membrane ofthe endoplasmic reticulum, is similar to Jaw1, alymphoid-restricted protein whose expression is downregulatedduring lymphoid differentiation. Studies in mouse suggest that MRVintegration at Mrvi1 induces myeloid leukemia by altering theexpression of a gene important for myeloid cell growth and/ordifferentiation, and thus this gene may function as a myeloidleukemia tumor suppressor gene. Several alternatively splicedtranscript variants encoding different isoforms have been found forthis gene, few of which initiate translation at a non-AUG (CUG)start site.

MRVI1 Antibody (N-term) Blocking peptide - References

Johnson, A.D., et al. Nat. Genet. 42(7):608-613(2010)Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) :Xu, J., et al. Proc. Natl. Acad. Sci. U.S.A. 107(5):2136-2140(2010)Antl, M., et al. Blood 109(2):552-559(2007)Casteel, D.E., et al. J. Biol. Chem. 280(46):38211-38218(2005)