

Product Information

MemDX™ Membrane Protein Human IRAG1 (Inositol 1,4,5-triphosphate receptor associated

1) Full Length

Cat. No.: **MPC4679K**

This product is for research use only and is not intended for diagnostic use.

This product is a made-to-order Human IRAG1 membrane protein expressed in HEK293. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

Product Specifications

Host Species

Human

Target Protein

IRAG1

Protein Length

Full length

Protein Class

Receptor

TMD

1

Sequence

MGMDLTCPFGISPACGAQASWSIFGADAAEVPGTRGHSQQEAAMPHIPED
EPPGEPQAAQSPAGQGPPAAGVSCSPTPTIVLTGDATSPEGETDKNLAN
RVHSPHKRLSHRHLKVSTASLTSDVPAGHIIDLVDQLPDISEEDKKK
NLALLEEAKLVSERFLTRRGRKSRSSPGDSPSAVSPNLSPSASPTSSRSN
SLTVPTPPGLDVCSGPPSPLPGAPPQQKGDEADVSSPHPGEPNVPKGLAD
RKQNDQRKVSQGRLAPRPPPVEKSKEIAIEQKENFDPLQYPETTPKGLAP
VTNSSGKMALNSPQPGPVESELGKQLLKTGWEGSPLPRSPQTQDAAGVGPP
ASQGRGPAGEPMGPEAGSKAELPPTVSRPPLLRLSWDSGPPEPGPRLQK
VLAKLPLAEEERKFAGKAGGKLAKAPGLKDFQIQVQPVVMQKLTKLREEH
ILMRNQNLVGLKLPDLSEAAEQEKGLPSELSPAIEEEESKSGLDVMPNIS
DVLLRKLVRHSLPGSAPPLTEKEVENVFVQLSLAFRNDSTLESRINQA
ERERNLTEENTEKELENFKASITSSASLWHHCEHRETYQKLLEDIAVLHR
LAARLSSRAEVVGAVRQEKRMSKATEVMMQYVENLKRTYEKDHAELEMEFK
KLANQNSSRSCGPSDEGVPRTARMSLTGKNMPRRRVSVAVVPKFNALN
LPGQTPSSSSISLPALSESPNGKGSPLVTSALPALLENGKTNGDPDCEA
SAPALTLSCLEELSQETKARMEEEAYSKGFQEGKKTKELQDLKEEEEEQ
KSESPPEEPVEETEEEEKGRSSKLEELVHFLQVMYPKLCQHWQVIWMM
AAVMLVLTTVLGLYSYNSCAEQADGPLGRSTCSAAQRDSWWSSGLQHEQ
PTEQ

Product Description

Expression Systems

HEK293

Tag

Based on specific requirements

Protein Format

Detergent or based on specific requirements (Detergent, Liposome, Nanodisc, Polymer, VLP)

Form

Liquid

Storage

Aliquot and store at -20°C or lower. For long term storage, we recommend to store at -72°C or lower. Avoid freeze/thaw cycles.

Target

Target Protein

IRAG1

Full Name

Inositol 1,4,5-triphosphate receptor associated 1

Introduction

This gene is similar to a putative mouse tumor suppressor gene (Mrvi1) that is frequently disrupted by mouse AIDS-related virus (MRV). The encoded protein, which is found in the membrane of the endoplasmic reticulum, is similar to Jaw1, a lymphoid-restricted protein whose expression is down-regulated during lymphoid differentiation. This protein is a substrate of cGMP-dependent kinase-1 (PKG1) that can function as a regulator of IP3-induced calcium release. Studies in mouse suggest that MRV integration at Mrvi1 induces myeloid leukemia by altering the expression of a gene important for myeloid cell growth and/or differentiation, and thus this gene may function as a myeloid leukemia tumor suppressor gene. Several alternatively spliced transcript variants encoding different isoforms have been found for this gene, and alternative translation start sites, including a non-AUG (CUG) start site, are used.

Alternative Names

IRAG1; IRAG; JAW1L; MRVI1; IP3R-associated cGMP kinase substrate; JAW1-related protein MRVI1; inositol 1,4,5-triphosphate receptor-associated cGMP kinase substrate; inositol 1,4,5-trisphosphate receptor-associated cGMP kinase substrate; murine retrovirus integration site 1 homolog; Inositol 1,4,5-triphosphate receptor associated 1

Gene ID

[10335](#)

UniProt ID

[Q9Y6F6](#)