IP3R-I Antibody – Polyclonal

PRODUCT OVERVIEW

Product Name	IP3R-I, Polyclonal Antibody
Full Product Name	IP3R-I Polyclonal Antibody
Product Gene Name	anti-IP3R-I antibody
Clonality	Polyclonal
Molecular Weight	309,209 Da
OMIM	117360
3D Structure	ModBase 3D Structure for Q14643
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for anti-IP3R-I antibody	MBS8523362 is an antibody targeting IP3R-I. Also known as IP3R-I Polyclonal Antibody.
Other Notes	Small volumes of anti-IP3R-I antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for IP3R-I. It may not necessarily be applicable to this product.

NCBI GI #	269954690
NCBI GeneID	3708
NCBI Accession #	NP_001093422.2
UniProt Primary Accession #	Q14643
UniProt Secondary Accession #	Q14660; Q99897; E7EPX7; E9PDE9
UniProt Related Accession #	Q14643
GenBank Nucleotide #	NM_001099952.2
NCBI Official Full Name	inositol 1,4,5-trisphosphate receptor type 1 isoform 1
NCBI Official Synonym Full Names	inositol 1,4,5-trisphosphate receptor type 1
NCBI Official Symbol	ITPR1
NCBI Official Synonym Symbols	ACV; CLA4; IP3R; IP3R1; SCA15; SCA16; SCA29; INSP3R1; PPP1R94
UniProt Protein Name	Inositol 1,4,5-trisphosphate receptor type 1
UniProt Synonym Protein Names	IP3 receptor isoform 1; IP3R 1; InsP3R1; Type 1 inositol 1,4,5-trisphosphate receptor; Type 1 InsP3 receptor
UniProt Gene Name	ITPR1
UniProt Synonym Gene Names	INSP3R1; IP3R 1; InsP3R1; Type 1 InsP3 receptor
NCBI Protein Information	inositol 1,4,5-trisphosphate receptor type 1

NCBI Summary for IP3R-I	This gene encodes an intracellular receptor for inositol 1,4,5-trisphosphate. Upon stimulation by inositol 1,4,5-trisphosphate, this receptor mediates calcium release from the endoplasmic reticulum. Mutations in this gene cause spinocerebellar ataxia type 15, a disease associated with an heterogeneous group of cerebellar disorders. Multiple transcript variants have been identified for this gene. [provided by RefSeq, Nov 2009]
UniProt Comments for IP3R-I	Intracellular channel that mediates calcium release from the endoplasmic reticulum following stimulation by inositol 1,4,5-trisphosphate (PubMed:27108797). Involved in the regulation of epithelial secretion of electrolytes and fluid through the interaction with AHCYL1 (). Plays a role in ER stress-induced apoptosis. Cytoplasmic calcium released from the ER triggers apoptosis by the activation of CaM kinase II, eventually leading to the activation of downstream apoptosis pathways ().
Research Articles on IP3R-I	**1.** Findings show that a pathogenic gain-of-function missense mutation within the suppressor region of ITPR1 causes SCA29 without cerebellar atrophy or other neuroimaging abnormalities; the Arg36Cys variant results in enhanced Ca2+ release due to alterations in the Ca2+ signal patterns from transient to sigmoidal, supporting a gain-of-function disease mechanism.
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