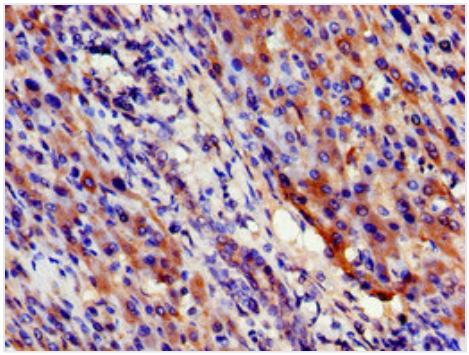
SIGMAR1 Antibody – Rabbit Polyclonal

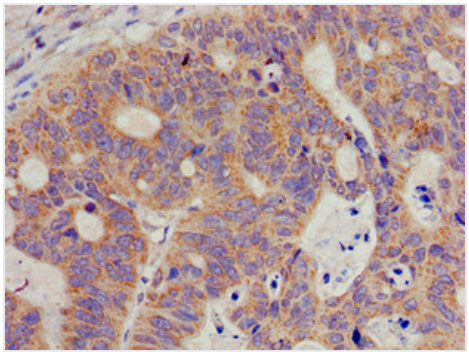
PRODUCT OVERVIEW

Product Name	SIGMAR1, Polyclonal Antibody
Full Product Name	SIGMAR1 Antibody
Product Gene Name	anti-SIGMAR1 antibody
Product Synonym Names	Sigma non-opioid intracellular receptor 1; Aging-associated gene 8 protein; SR31747-binding protein; SR-BP; Sigma 1-type opioid receptor; SIG-1R; Sigma1-receptor; Sigma1R; hSigmaR1; SIGMAR1; OPRS1; SRBP; AAG8
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid
Purity/Purification	>95%, Protein G purified
Preparation and Storage	Upon receipt, store at -20 degree C or -80 degree C. Avoid repeated freeze.
Matching Pairs	Unconjugated Antibody: SIGMAR1 (MBS7103845) HRP Conjugated Antibody: SIGMAR1 (MBS7103846)
Matching Pairs	Unconjugated Antibody: SIGMAR1 (MBS7103845) FITC Conjugated Antibody: SIGMAR1 (MBS7103847)
Matching Pairs	Unconjugated Antibody: SIGMAR1 (MBS7103845) Biotin Conjugated Antibody: SIGMAR1 (MBS7103848)
Molecular Weight	21,013 Da
OMIM	U75283 mRNA
3D Structure	ModBase 3D Structure for Q99720
Immunogen	Recombinant Human Sigma non-opioid intracellular receptor 1 protein (112-169AA)
Conjugation	Non-conjugated
Buffer	Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, pH 7.4
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-SIGMAR1 antibody	ELISA (EIA), Immunohistochemistry (IHC)
Application Notes for anti-SIGMAR1 antibody	IHC: 1:20-1:200

Related Product Information for anti-SIGMAR1 antibody	Functions in lipid transport from the endoplasmic reticulum and is involved in a wide array of cellular functions probably through regulation of the biogenesis of lipid microdomains at the plasma membrane. Involved in the regulation of different receptors it plays a role in BDNF signaling and EGF signaling. Also regulates ion channels like the potassium channel and could modulate neurotransmitter release. Plays a role in calcium signaling through modulation together with ANK2 of the ITP3R-dependent calcium efflux at the endoplasmic reticulum. Plays a role in several other cell functions including proliferation, survival and death. Originally identified for its ability to bind various psychoactive drugs it is involved in learning processes, memory and mood alteration (PubMed:16472803, PubMed:9341151). Necessary for proper mitochondrial axonal transport in motor neurons, in particular the retrograde movement of mitochondria (By similarity).
Other Notes	Small volumes of anti-SIGMAR1 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.
Searchable Terms for SIGMAR1 purchase	MBS7103845 is an antibody targeting SIGMAR1. Also known as SIGMAR1 Antibody. Reactive in Human. Host: Rabbit.



Immunohistochemistry (IHC) of anti-SIGMAR1 antibody
Immunohistochemistry of paraffin-embedded human liver cancer using MBS7103845 at dilution of 1:100



Immunohistochemistry (IHC) of anti-SIGMAR1 antibody
Immunohistochemistry of paraffin-embedded human colon cancer using MBS7103845 at dilution of 1:100

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SIGMAR1. It may not necessarily be applicable to this product.

NCBI GI #	532524982
NCBI GeneID	10280
NCBI Accession #	NP_001269134.1
UniProt Primary Accession #	Q99720
UniProt Secondary Accession #	O00673; O00725; Q0Z9W6; Q153Z1; Q2TSD1; Q53GN2; Q7Z653; Q8N7H3; Q9NYX0; D3DRM7
UniProt Related Accession #	Q99720
GenBank Nucleotide #	NM_001282205.1
NCBI Official Full Name	sigma non-opioid intracellular receptor 1 isoform 6
NCBI Official Synonym Full Names	sigma non-opioid intracellular receptor 1
NCBI Official Symbol	SIGMAR1
NCBI Official Synonym Symbols	SRBP; ALS16; DSMA2; OPRS1; SR-BP; SIG-1R; SR-BP1; sigma1R; hSigmaR1
UniProt Protein Name	Sigma non-opioid intracellular receptor 1
UniProt Synonym Protein Names	Aging-associated gene 8 protein; SR31747-binding protein; SR-BP; Sigma 1-type opioid receptor; SIG-1R; Sigma1-receptor; Sigma1R; hSigmaR1
Protein Family	Sigma non-opioid intracellular receptor
UniProt Gene Name	SIGMAR1

UniProt Synonym Gene Names	OPRS1; SRBP; SR-BP; SIG-1R; Sigma1-receptor; Sigma1R; hSigmaR1
NCBI Protein Information	sigma non-opioid intracellular receptor 1
NCBI Summary for SIGMAR1	This gene encodes a receptor protein that interacts with a variety of psychotomimetic drugs, including cocaine and amphetamines. The receptor is believed to play an important role in the cellular functions of various tissues associated with the endocrine, immune, and nervous systems. As indicated by its previous name, opioid receptor sigma 1 (OPRS1), the product of this gene was erroneously thought to function as an opioid receptor; it is now thought to be a non-opioid receptor. Mutations in this gene has been associated with juvenile amyotrophic lateral sclerosis 16. Alternative splicing of this gene results in transcript variants encoding distinct isoforms. [provided by RefSeq, Aug 2013]
UniProt Comments for SIGMAR1	Functions in lipid transport from the endoplasmic reticulum and is involved in a wide array of cellular functions probably through regulation of the biogenesis of lipid microdomains at the plasma membrane. Involved in the regulation of different receptors it plays a role in BDNF signaling and EGF signaling. Also regulates ion channels like the potassium channel and could modulate neurotransmitter release. Plays a role in calcium signaling through modulation together with ANK2 of the ITP3R-dependent calcium efflux at the endoplasmic reticulum. Plays a role in several other cell functions including proliferation, survival and death. Originally identified for its ability to bind various psychoactive drugs it is involved in learning processes, memory and mood alteration (PubMed:16472803, PubMed:9341151). Necessary for proper mitochondrial axonal transport in motor neurons, in particular the retrograde movement of mitochondria ().
Research Articles on SIGMAR1	**1.** These findings indicate that a loss of Sig1R function is causative for juvenile amyotrophic lateral sclerosis (ALS16), and collapse of the mitochondria-associated membrane is a common pathomechanism in both Sig1R- and SOD1-linked ALS.
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