OXSR1 Blocking Peptide – >85% Purity

PRODUCT OVERVIEW

Product Name	OXSR1, Blocking Peptide
Full Product Name	OXSR1 Blocking Peptide
Product Gene Name	OXSR1 blocking peptide
Product Synonym Names	KIAA1101; OSR1; Serine/threonine-protein kinase OSR1; Oxidative stress-responsive 1 protein
Host	Synthetic
Species Reactivity	Human, Mouse, Rat, Bovine
Form/Format	Lyophilized powder
Purity/Purification	>85%
Preparation and Storage	Shipped at 4 degree C. Store at -20 degree C for one year.
Antibody/Peptide Pairs	OXSR1 peptide (MBS824043) is used for blocking the activity of OXSR1 antibody (MBS821783)
Molecular Weight	58,022 Da
OMIM	604046
Quality Control	The quality of the peptide was evaluated by reversed-phase HPLC and by mass spectrometry.
Applications Tested/Suitable for OXSR1 blocking peptide	Blocking (BL)
Application Notes for OXSR1 blocking peptide	Blocking Peptide to the diluted primary antibody in a molar ratio of 10:1 (peptide to antibody) and incubate the mixture at 4 degree C for overnight or at room temperature for 2 hours.
Related Product Information for OXSR1 blocking peptide	MBS824043 is a blocking peptide targeting OXSR1. Reactive in Human, Mouse, Rat, Bovine. Host: Synthetic. The peptide is used to block Anti-OXSR1 Antibody reactivity.
Other Notes	Small volumes of OXSR1 blocking peptide 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 OXSR1. It may not necessarily be applicable to this product.

NCBI GI #	4826878
NCBI GeneID	9943
NCBI Accession #	NP_005100.1
UniProt Primary Accession #	O95747
UniProt Secondary Accession #	Q3LR53; Q7Z501; Q9UPQ1
UniProt Related Accession #	O95747
GenBank Nucleotide #	NM_005109.2
NCBI Official Full Name	serine/threonine-protein kinase OSR1
NCBI Official Synonym Full Names	oxidative stress responsive 1

NCBI Official Symbol	OXSR1
NCBI Official Synonym Symbols	OSR1
UniProt Protein Name	Serine/threonine-protein kinase OSR1
UniProt Synonym Protein Names	Oxidative stress-responsive 1 protein
Protein Family	Serine/threonine-protein kinase
UniProt Gene Name	OXSR1
UniProt Entry Name	OXSR1_HUMAN
NCBI Protein Information	serine/threonine-protein kinase OSR1; OXSR1; oxidative-stress responsive 1; oxidative stress-responsive 1 protein
NCBI Summary for OXSR1	The product of this gene belongs to the Ser/Thr protein kinase family of proteins. It regulates downstream kinases in response to environmental stress, and may play a role in regulating the actin cytoskeleton. [provided by RefSeq, Jul 2008]
UniProt Comments for OXSR1	OSR1: oxidative-stress responsive 1 protein is a ubiquitously expressed protein kinase of the STE20 family. Regulates Na-K-Cl cotransporter (NKCC) activity. Regulates downstream kinases in response to environmental stress. May also have a function in regulating the actin cytoskeleton. Binds to and phosphorylates PAK1. Interacts and is phosphorylated by WNK1. Knockdown of either WNK1 or OXSR1 reduces NKCC activity. Interacts with chloride channel proteins SLC12A6 isoform 2, SLC12A1 and SLC12A2 but not with SLC12A4 and SLC12A7, possibly establishing sensor/signaling modules that initiate the cellular response to environmental stress. An important paralog of this gene is STRADB. Protein type: EC 2.7.11.1; Kinase, protein; Protein kinase, Ser/Thr (non-receptor); Protein kinase, STE; STE group; STE20 family; FRAY subfamily Chromosomal Location of Human Ortholog: 3p22.2 Cellular Component: cytoplasm Molecular Function: protein serine/threonine kinase activity; protein binding; magnesium ion binding; ATP binding; receptor signaling protein serine/threonine kinase activity Biological Process: peptidyl-threonine phosphorylation; response to oxidative stress; protein amino acid phosphorylation
Research Articles on OXSR1	**1.** the WNK-regulated SPAK/OSR1 kinases directly phosphorylate the N[K]CCs and KCCs, promoting their stimulation and inhibition respectively.
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