OXSR1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	OXSR1, Polyclonal Antibody
Full Product Name	OXSR1 (Serine/Threonine-Protein Kinase OSR1, Oxidative Stress-Responsive 1 Protein, KIAA1101, OSR1) (MaxLight 490)
Product Gene Name	anti-OXSR1 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight490.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human OXSR1.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amo
Molecular Weight	58,022 Da
Chromosome Location	Chromosome: 3; NC_000003.11 (38207026..38296979). Location: 3p22.2
OMIM	604046
3D Structure	ModBase 3D Structure for O95747
Immunogen	Full length human OXSR1, aa1-527 (NP_005100.1).
Immunogen Sequence	MSEDSSALPWSINRDDYELQEVIGSGATAVVQAAYCAPKKEKVAIKRINLEKCQTSMDELLKEIQAMSQCHHPNIVSYYTSFVVKDELWLVMKLLSGGSVL
Conjugate	MaxLight490
Note	Preservative Free
Product Categories/Family for anti-OXSR1 antibody	Antibodies; Protein Kinases
Applications Tested/Suitable for anti-OXSR1 antibody	Western Blot (WB)
Application Notes for anti-OXSR1 antibody	Applications are based on unconjugated antibody.

Related Product Information for anti-OXSR1 antibody	The product of this gene belongs to the Ser/Thr protein kinase family of proteins. It regulates downstream kinases in response to environmental stress,
Other Notes	Small volumes of anti-OXSR1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If neces
Searchable Terms for OXSR1 purchase	MBS6388168 is an antibody targeting OXSR1. Also known as OXSR1 (Serine/Threonine-Protein Kinase OSR1, Oxidative Stress-Responsive 1 Protein

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 Synonym Gene Names	KIAA1101; OSR1
UniProt Entry Name	OXSR1_HUMAN
NCBI Protein Information	serine/threonine-protein kinase OSR1; oxidative-stress responsive 1; oxidative stress-responsive 1 protein

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: Protein kinase, Ser/Thr (non-receptor); Protein kinase, STE; EC 2.7.11.1; Kinase, protein; 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.** SPAK and OSR1, which are often coexpressed in cells, can form functional heterodimers.
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