

Rabbit OXSR1 Polyclonal Antibody | anti-OXSR1 antibody

Anti-OXSR1 Antibody Picoband

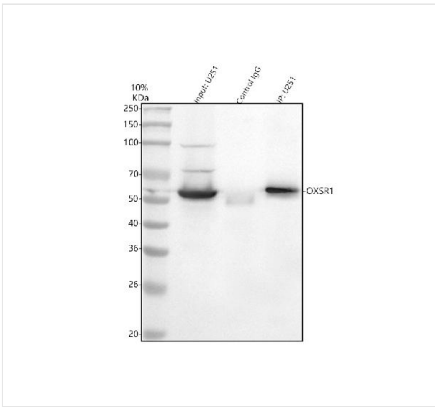
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127278	Rabbit	Human, Mouse, Rat	Western Blot, Immunoprecipitation, Flow Cytometry, Functional Assay, ELISA

PRODUCT SYNONYMS

OXSR1; Polyclonal Antibody; Anti-OXSR1 Antibody Picoband; Serine/threonine-protein kinase AtPK1/AtPK6; 70 kDa ribosomal protein S6 kinase 1 antibody; KS6B1_HUMAN antibody; p70 alpha antibody; P70 beta 1 antibody; p70 ribosomal S6 kinase alpha antibody; p70 ribosomal S6 kinase beta 1 antibody; p70 S6 kinase alpha antibody; P70 S6 Kinase antibody; p70 S6 kinase alpha 1 antibody; p70 S6 kinase alpha 2 antibody; p70 S6K antibody; p70 S6K-alpha antibody; p70 S6KA antibody; p70(S6K) alpha antibody; p70(S6K)-alpha antibody; p70-alpha antibody; p70-S6K 1 antibody; p70-S6K antibody; P70S6K antibody; P70S6K1 antibody; p70S6Kb antibody; PS6K antibody; Ribosomal protein S6 kinase 70kDa polypeptide 1 antibody; Ribosomal protein S6 kinase beta 1 antibody; Ribosomal protein S6 kinase beta-1 antibody; Ribosomal protein S6 kinase I antibody; RPS6KB1 antibody; S6K antibody; S6K-beta-1 antibody; S6K1 antibody; Serine/threonine kinase 14 alpha antibody; Serine/threonine-protein kinase 14A antibody; STK14A antibody; anti-OXSR1 antibody

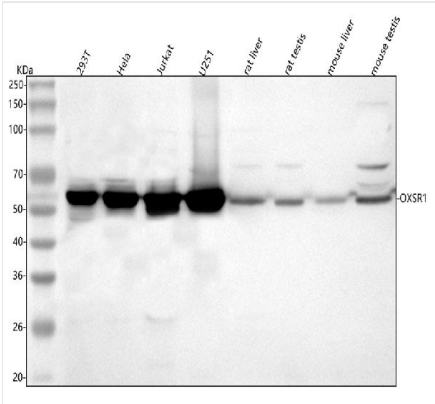
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	Expressed in all tissues.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Applicable Applications for anti-OXSR1 antibody	WB (Western Blot), IP (Immunoprecipitation), FCM/FACS (Flow Cytometry), ELISA
Immunogen	E coli-derived human OXSR1 recombinant protein (Position: K351-S527). Human OXSR1 shares 89.8% and 85.4% amino acid (aa) sequence identity with mouse and rat OXSR1, respectively.
Subcellular Localization	Cytoplasm, Nucleus
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
Cross Reactivity	No cross reactivity with other proteins.
Protein Function	Downstream effector of TOR signaling pathway involved in osmotic stress response. Could be involved in the control of plant growth and development. Phosphorylates the ribosomal proteins P14, P16 and S6. Functions as a repressor of cell proliferation and required for maintenance of chromosome stability and ploidy levels through the RBR1-E2F pathway.
Preparation and Storage	At -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months.Avoid repeated freezing and thawing.



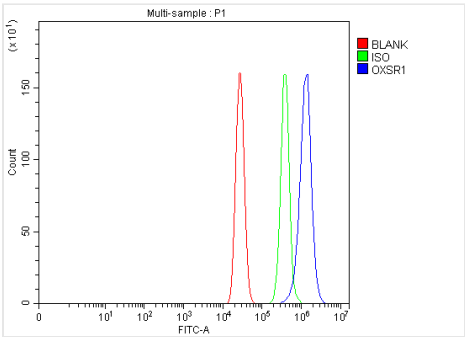
IP (Immunoprecipitation)

Figure 3. Immunoprecipitating OXSR1 in U251 whole cell lysate .Western blot analysis of OXSR1 using anti-OXSR1 antibody (AAA127278).Lane 1: U251 whole cell lysates (30ug)Lane 2: Rabbit control IgG instead of anti-OXSR1 antibody in U251 whole cell lysate.Lane 3: anti-OXSR1 antibody (2ug) + U251 whole cell lysate (500ug)After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-OXSR1 antigen affinity purified polyclonal antibody (AAA127278) at a dilution of 0.5ug/mL and probed with a goat anti-rabbit IgG-HRP secondary antibody . The signal is developed using ECL Plus Western Blotting Substrate . A specific band was detected for OXSR1 at approximately 58 kDa. The expected band size for OXSR1 is at 58 kDa.



WB (Western Blot)

Figure 1. Western blot analysis of OXSR1 using anti-OXSR1 antibody (AAA127278).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.Lane 1: human 293T whole cell lysates,Lane 2: human Hela whole cell lysates,Lane 3: human Jurkat whole cell lysates,Lane 4: human U251 whole cell lysates,Lane 5: rat liver tissue lysates,Lane 6: rat testis tissue lysates,Lane 7: mouse liver tissue lysates,Lane 8: mouse testis tissue lysates.After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-OXSR1 antigen affinity purified polyclonal antibody (#AAA127278) at 0.25ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for OXSR1 at approximately 58 kDa. The expected band size for OXSR1 is at 58 kDa.



FCM/FACS (Flow Cytometry)

Figure 2. Flow Cytometry analysis of MCF-7 cells using anti-OXSR1 antibody (AAA127278).Overlay histogram showing MCF-7 cells stained with AAA127278 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-OXSR1 Antibody (AAA127278, 1ug/1x106 cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x106) used under the same conditions. Unlabelled sample (Red line) was also used as a control.

ADDITIONAL INFORMATION

Related Product Information for anti-OXSR1 antibody	The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Product Categories/Family for anti-OXSR1 antibody	Primary Antibodies; Signal Transduction; Signaling Pathway; Small G Proteins

References	1. Anselmo, A. N., Earnest, S., Chen, W., Juang, Y.-C., Kim, S. C., Zhao, Y., Cobb, M. H. WNK1 and OSR1 regulate the Na⁺, K⁺, 2Cl⁻ cotransporter in HeLa cells. Proc. Nat. Acad. Sci. 103: 10883-10888, 2006.2. Chen, W., Yazicioglu, M., Cobb, M. H. Characterization of OSR1, a member of the mammalian Ste20p/germinal center kinase subfamily. J. Biol. Chem. 279: 11129-11136, 2004. 3. Daigo, Y., Isomura, M., Nishiwaki, T., Tamari, M., Ishikawa, S., Kai, M., Murata, Y., Takeuchi, K., Yamane, Y., Hayashi, R., Minami, M., Fujino, M. A., Hojo, Y., Uchiyama, I., Takagi, T., Nakamura, Y. Characterization of a 1200-kb genomic segment of chromosome 3p22-p21.3. DNA Res. 6: 37-44, 1999.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4826878
NCBI GeneID	9943
NCBI Accession #	NP_005100.1
NCBI GenBank Nucleotide #	NM_005109.2
UniProt Accession #	O95747; Q3LR53; Q7Z501; Q9UPQ1
Molecular Weight	58,022 Da
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
NCBI Protein Information	serine/threonine-protein kinase OSR1; oxidative-stress responsive 1; oxidative stress-responsive 1 protein
UniProt Protein Name	Serine/threonine-protein kinase OSR1
UniProt Gene Name	OXSR1
UniProt Synonym Gene Names	KIAA1101; OSR1
UniProt Entry Name	OXSR1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.