

Produktinformation



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Diagnostik & molekulare Diagnostik



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OXSR1 (h): 293T Lysate: sc-171465



The Power to Question

BACKGROUND

Oxidative stress-responsive 1 protein (OXSR1), a protein of 527 amino acids, belongs to the STE20 subfamily. OXSR1 is one of two human homologs of Fray, a serine/threonine kinase expressed in *Drosophila*. OXSR1 binds to and phosphorylates p21-activated protein kinase (PAK1) and regulates downstream kinases in response to environmental stress. Endogenous OXSR1 is activated only by osmotic stresses, notably sorbitol and to a lesser extent NaCl. OXSR1 may also play a role in regulating the Actin cytoskeleton. The chloride channel proteins SLC12A1, SLC12A2, and SLC12A6 isoform 2 interact with OXSR1, but SLC12A4 and SLC12A7 do not. The WNK1 and WNK4 protein kinases activate OXSR1 by phosphorlating its T-loop. The OXSR1 protein is widely expressed in mammalian tissues.

REFERENCES

- Tamari, M., et al. 1999. Isolation and characterization of a novel serine/ threonine kinase gene on chromosome 3p22-21.3. J. Hum. Genet. 44: 116-120.
- Online Mendelian Inheritance in Man, OMIM™. 2002. Johns Hopkins University, Baltimore, MD. MIM Number: 604046. World Wide Web URL: http://www.ncbi.nlm.nih.gov/omim/
- Chen, W., et al. 2004. Characterization of OSR1, a member of the mammalian STE20p/germinal center kinase subfamily. J. Biol. Chem. 279: 11129-11136.
- Hu, W., et al. 2004. The novel molecule porcine OSR1 upregulated expression on porcine endothelial cells by human peripheral blood mononuclear cell activation. Transplant. Proc. 36: 2475-2477.
- Marshall, W.S., et al. 2005. Hypotonic shock mediation by p38 MAPK, JNK, PKC, FAK, OSR1 and SPAK in osmosensing chloride secreting cells of killifish opercular epithelium. J. Exp. Biol. 208: 1063-1077.
- Vitari, A.C., et al. 2005. The WNK1 and WNK4 protein kinases that are mutated in Gordon's hypertension syndrome phosphorylate and activate SPAK and OSR1 protein kinases. Biochem. J. 391: 17-24.

CHROMOSOMAL LOCATION

Genetic locus: OXSR1 (human) mapping to 3p22.2.

PRODUCT

OXSR1 (h): 293T Lysate represents a lysate of human OXSR1 transfected 293T cells and is provided as 100 μ g protein in 200 μ l SDS-PAGE buffer.

APPLICATIONS

OXSR1 (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive OXSR1 antibodies.

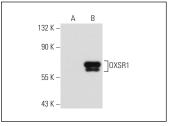
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

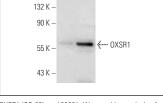
OXSR1 (SQ-39): sc-100361 is recommended as a positive control antibody for Western Blot analysis of enhanced human OXSR1 expression in OXSR1 transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-lgG κ BP-HRP: sc-516102 or m-lgG κ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz MarkerTM Molecular Weight Standards: sc-2035, UltraCruz[®] Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

DATA





OXSR1 (SQ-39): sc-100361. Western blot analysis of OXSR1 expression in non-transfected: sc-117752 (A) and human OXSR1 transfected: sc-171465 (B) 293T whole cell lysates.

OXSR1 (SQ-39): sc-100361. Western blot analysis of OXSR1 expression in non-transfected: sc-117752 (A) and human OXSR1 transfected: sc-171465 (B) 293T whole cell lysates.

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.

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