For Research Use Only

OXSR1 Polyclonal antibody

Catalog Number:15611-1-AP Featured Product 2 Publications

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Basic Information

Catalog Number:
15611-1-AP

Size:
600 μg/ml

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG8002

GenBank Accession Number:
BC008726

GeneID (NCBI):
9943

UNIPROT ID:
O95747

Full Name:
oxidative-stress responsive 1

Calculated MW:
58 kDa

Observed MW:
58 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:500-1:2000
IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC 1:50-1:500
IF/ICC 1:50-1:500

Applications

Tested Applications:
IF/ICC, IHC, IP, WB, ELISA

Cited Applications:
WB, IF, IHC

Species Specificity:
human, mouse, rat

Cited Species:
human, rat

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : HEK-293 cells, human liver tissue, human testis tissue, HeLa cells, Jurkat cells, U-251 cells

IP : HeLa cells, HEK-293 cells

IHC : human prostate cancer tissue,

IF/ICC : MCF-7 cells,

Background Information

Oxidative-stress responsive 1(OXSR1) is also named as KIAA1101, OSR1 and belongs to the STE Ser/Thr protein kinase family. It contains an N-terminal Ste20-like ser/thr kinase domain and 2 C-terminal regions, which has a putative caspase-3 cleavage site at the end. OXSR1's interaction with WNK1 is required for NKCC function, and it modulates the G protein sensitivity of PAK by phosphorylation of PAK1.Western blot analysis detected Oxsr1 at an apparent molecular mass of 58 kD in all mouse tissues examined except thymus. Cell fractionation and immunofluorescence analysis of HeLa cells showed that OXSR1 was distributed throughout the cell and OXSR1 could phosphorylate a test substrate and itself(PMID:14707132).

Notable Publications

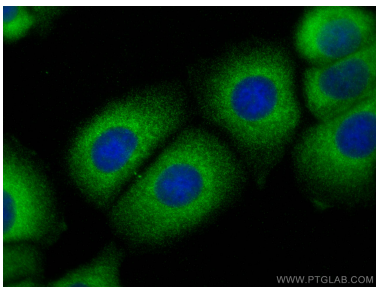
Author	Pubmed ID	Journal	Application
Jianhui Chen	32842855	Bioengineered	IHC,WB
Qiguang Wang	38353402	Adv Sci (Weinh)	WB,IF

Storage

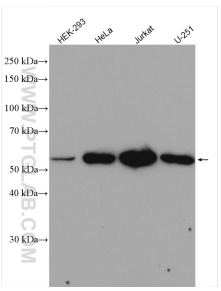
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

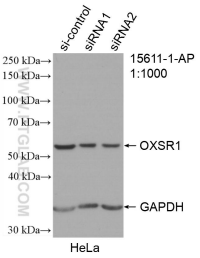
Selected Validation Data



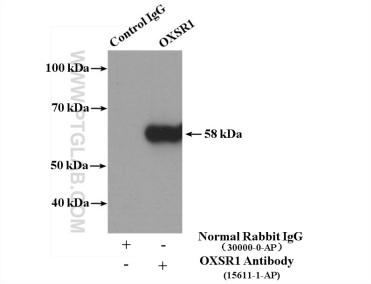
Immunofluorescent analysis of (-20°C Methanol) fixed MCF-7 cells using OXSR1 antibody (15611-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



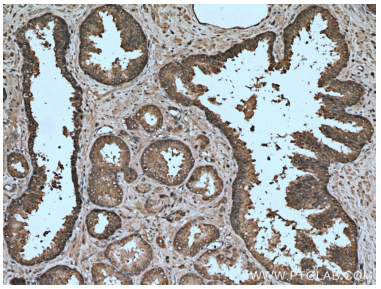
Various lysates were subjected to SDS PAGE followed by western blot with 15611-1-AP (OXSR1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



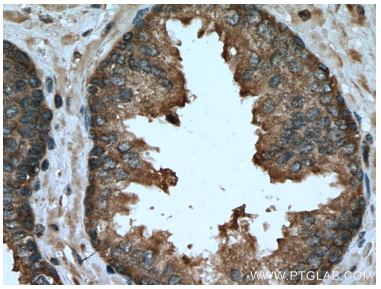
WB result of OXSR1 antibody (15611-1-AP; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-OXSR1 transfected HeLa cells.



IP result of anti-OXSR1 (IP:15611-1-AP, 4ug; Detection:15611-1-AP 1:500) with HeLa cells lysate 3200ug.



Immunohistochemical analysis of paraffin-embedded human prostate cancer tissue slide using 15611-1-AP (OXSR1 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human prostate cancer tissue slide using 15611-1-AP (OXSR1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).