

For Research Use Only

OXR1 Polyclonal antibody

Catalog Number: 13514-1-AP

8 Publications



Basic Information

Catalog Number:

13514-1-AP

Size:

150ul, Concentration: 450 ug/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG4439

GenBank Accession Number:

BC032710

GeneID (NCBI):

55074

UNIPROT ID:

Q8N573

Full Name:

oxidation resistance 1

Calculated MW:

758 aa, 85 kDa

Observed MW:

120-140 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:2000-1:16000

IHC 1:50-1:500

Applications

Tested Applications:

WB, IHC, ELISA

Cited Applications:

WB, IHC, IF

Species Specificity:

human, mouse

Cited Species:

human, mouse, rat

Positive Controls:

WB : HeLa cells, K-562 cells, Neuro-2a cells

IHC : human pancreas cancer tissue, mouse brain tissue

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

Background Information

Oxidation resistance protein 1 (OXR1) belongs to the OXR1 family. The major function of OXR1 is to control the expression of genes that alleviate oxidative stress by increasing cellular resistance to reactive oxygen species (ROS) and the stress these molecules cause the cell. OXR1's ability to reduce oxidative stress and neurodegeneration in multiple diseases strongly suggests that it can be an effective therapeutic target (PMID: 33384581). Biochemical experiments show that OXR1 inhibits V1-ATPase and causes disassembly of the holoenzyme, suggesting that OXR1 plays a direct role in V-ATPase regulation (PMID: 34918374). OXR1 has 8 isoforms with the molecular mass of 25, 28, 34, 56, 94, 95 and 98 kDa. Sometimes higher molecular weight around 120-140 kDa can also be observed, which may be a modified variant of OXR1.

Notable Publications

| Author | Pubmed ID | Journal | Application |
|-------------------|-----------|------------------|-------------|
| Wen Ye | 34040413 | J Inflamm Res | WB |
| Pedro P M Scariot | 34303768 | Brain Res Bull | WB |
| Jing Liu | 35174215 | Front Mol Biosci | WB |

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

*** 20ul sizes contain 0.1% BSA

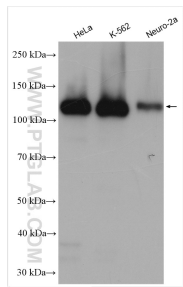
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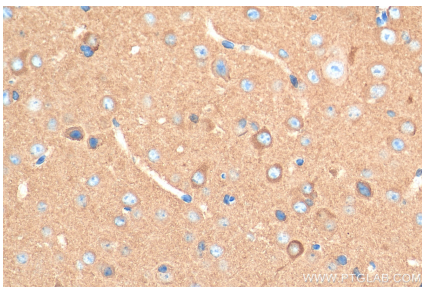
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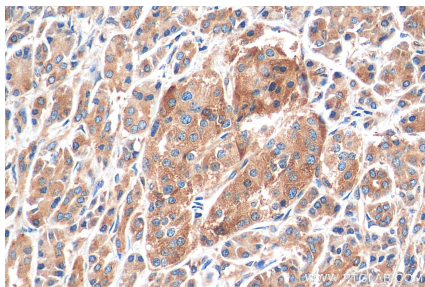
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 13514-1-AP (OXR1 antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 13514-1-AP (OXR1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human pancreas cancer tissue slide using 13514-1-AP (OXR1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).