

For Research Use Only

# OXR1 Polyclonal antibody

Catalog Number: 13514-1-AP **6 Publications**



## Basic Information

<b>Catalog Number:</b> 13514-1-AP	<b>GenBank Accession Number:</b> BC032710	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 450 µg/ml by Nanodrop and 293 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 55074	<b>Recommended Dilutions:</b> WB 1:2000-1:16000 IHC 1:50-1:500
<b>Source:</b> Rabbit	<b>Full Name:</b> oxidation resistance 1	
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 758 aa, 85 kDa	
<b>Immunogen Catalog Number:</b> AG4439	<b>Observed MW:</b> 120-140 kDa	

## Applications

<b>Tested Applications:</b> IHC, WB, ELISA	<b>Positive Controls:</b> WB : HeLa cells, K-562 cells, Neuro-2a cells
<b>Cited Applications:</b> IF, WB	<b>IHC :</b> human pancreas cancer tissue, mouse brain tissue
<b>Species Specificity:</b> human, mouse	
<b>Cited Species:</b> rat, mouse	
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## 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

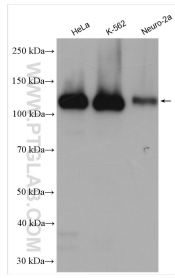
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
**Aliquoting is unnecessary for -20°C storage**

\*\*\* 20ul sizes contain 0.1% BSA

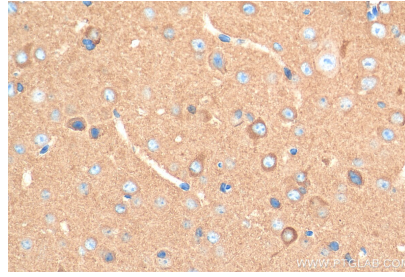
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

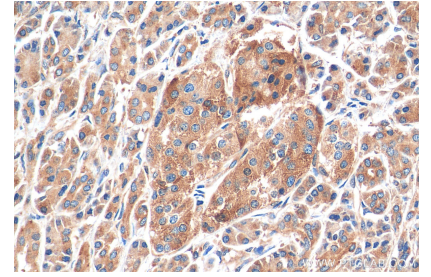
## Selected Validation Data



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).