

For Research Use Only

OXR1 Polyclonal antibody

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



Basic Information

Catalog Number: 13514-1-AP	GenBank Accession Number: BC032710	Purification Method: Antigen affinity purification
Size: 450 µg/ml	GeneID (NCBI): 55074	Recommended Dilutions: WB 1:2000-1:16000 IHC 1:50-1:500
Source: Rabbit	UNIPROT ID: Q8N573	
Isotype: IgG	Full Name: oxidation resistance 1	
Immunogen Catalog Number: AG4439	Calculated MW: 758 aa, 85 kDa	
	Observed MW: 120-140 kDa	

Applications

Tested Applications: IHC, WB, ELISA	Positive Controls: WB : HeLa cells, K-562 cells, Neuro-2a cells
Cited Applications: WB, IF	IHC : human pancreas cancer tissue, mouse brain tissue
Species Specificity: human, mouse	
Cited Species: rat, mouse	
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

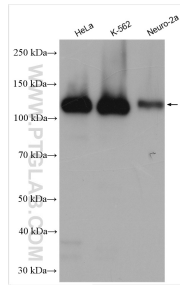
Storage

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

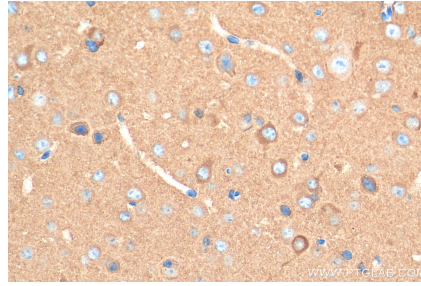
For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

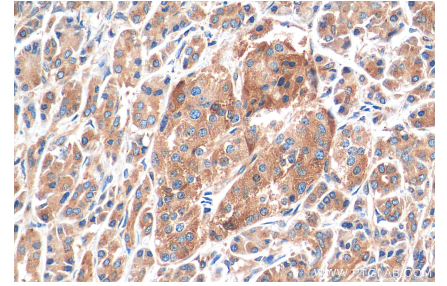
Selected Validation Data



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).