For Research Use Only

OXR1 Recombinant antibody, PBS Only

Catalog Number:86359-3-PBS

proteintech®
Antibodies | ELISA kits | Proteins
www.ptglab.com

Basic Information

Catalog Number:
86359-3-PBS

Size:
100ug , Concentration: 1 mg/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:
Protein A purification

CloneNo.:
251027B10

Applications

Tested Applications:
WB, IHC, Indirect ELISA

Species Specificity:
human, mouse, rat

Background Information

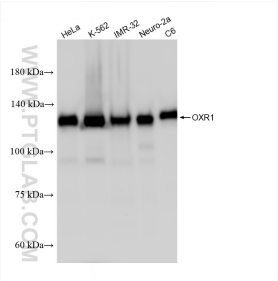
Oxidation resistance protein 1 (OXR1) belongs to the OXR1 family. The major function of OXR1 is to control the expression of genes that alleviate oxidative stress by increasing cellular resistance to reactive oxygen species (ROS) and the stress these molecules cause the cell. OXR1's ability to reduce 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.

Storage

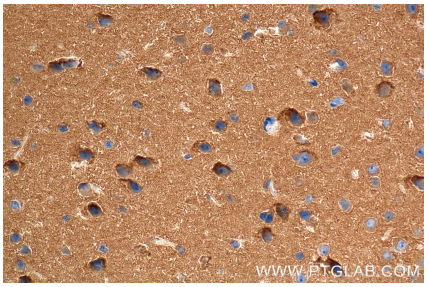
Storage:
Store at -80°C.
Storage Buffer:
PBS only, pH7.3

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
W: ptglab.com

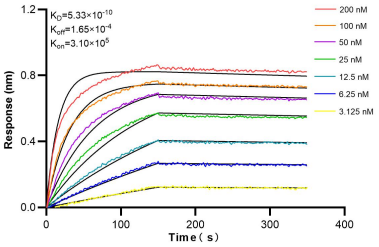
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 86359-3-RR (OXR1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 86359-3-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 86359-3-RR (OXR1 antibody) at dilution of 1:600 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 86359-3-PBS in a different storage buffer formulation.



Biolayer interferometry (BLI) kinetic assays of 86359-3-RR against Human OXR1 were performed. The affinity constant is 0.533 nM.