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Anti-OXR1 Antibody

Catalog # AP60972

Product Information

Application	WB, IHC, IF/IC
Primary Accession	Q8N573
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	97970

Additional Information

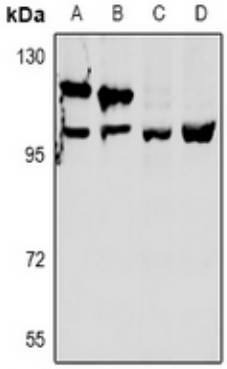
Gene ID	55074
Other Names	Oxidation resistance protein 1
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human OXR1. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000), IHC (1/50 - 1/100) IHC~~WB (1/500 - 1/1000), IHC (1/50 - 1/100) IF/IC~~N/A
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

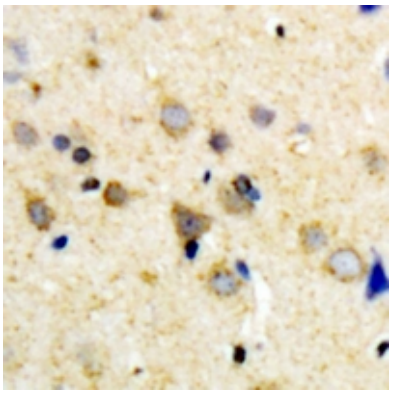
Name	OXR1
Function	Inhibits the activity of the vacuolar-type ATPase (V-ATPase) by inducing disassembly of the V-ATPase complex (PubMed:38593795). Protects the Golgi apparatus lumen from excess acidification by inhibiting V-ATPase ATP hydrolytic activity through interaction with V- ATPase catalytic subunit ATP6V1A, maintaining optimal conditions for glycosylation enzymes (By similarity). Involved in protection from oxidative damage (PubMed:11114193, PubMed:15060142). Protects neuronal cells from oxidative stress (By similarity).
Cellular Location	Mitochondrion. Nucleus, nucleolus {ECO:0000250|UniProtKB:Q4KMM3}. Golgi apparatus, cis-Golgi network membrane {ECO:0000250|UniProtKB:Q4KMM3}; Peripheral membrane protein {ECO:0000250|UniProtKB:Q4KMM3}. Golgi apparatus, trans-Golgi network membrane {ECO:0000250|UniProtKB:Q4KMM3}; Peripheral membrane protein {ECO:0000250|UniProtKB:Q4KMM3}. Note=Detected in mitochondria in

neuronal cells. Has also been detected in the nucleolus in fibroblasts and myoblasts. Recruited to the cis-Golgi network and trans-Golgi network membranes in a Rab-dependent manner {ECO:0000250|UniProtKB:Q4KMM3}

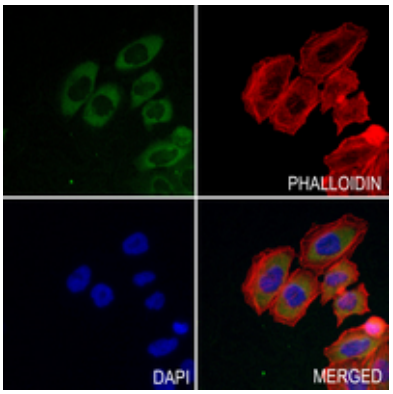
Images



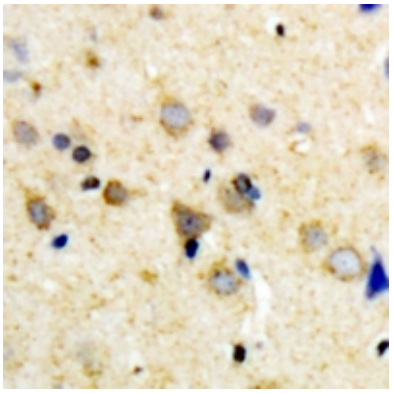
Western blot analysis of OXR1 expression in PC12 (A), AML12 (B), LO2 (C), SGC7901 (D) whole cell lysates. (Predicted band size: 97 kD; Observed band size: 97 kD)



Immunohistochemical analysis of OXR1 staining in human brain formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of OXR1 staining in MCF7 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a hidified chamber. Cells were washed with PBST and incubated with a AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).



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Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.