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OXR1 Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP50817

Product Information

Application	WB
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, OXR1
Dilution	WB~~ 1:1000
Format	Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.09% (W/V) sodium azide and 50% glycerol. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage Conditions	-20℃

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}

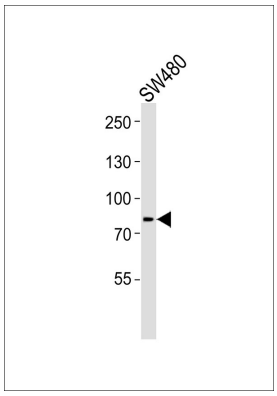
Background

May be involved in protection from oxidative damage.

References

Yang M.,et al.Submitted (JAN-2010) to the EMBL/GenBank/DDBJ databases.
Ohira M.,et al.Cancer Lett. 197:63-68(2003).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Nusbaum C.,et al.Nature 439:331-335(2006).
Bechtel S.,et al.BMC Genomics 8:399-399(2007).

Images



Western blot analysis of lysate from SW480 cell line,using OXR1 Antibody. This antibody was diluted at 1:1000. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody.Lysate at 35ug.

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