

Datasheet for ABIN2773843

anti-POR antibody (Middle Region)[Go to Product page](#)**2** Images**1** Publication

Overview

Quantity:	100 µL
Target:	POR
Binding Specificity:	Middle Region
Reactivity:	Human, Rat, Mouse, Cow, Dog, Rabbit, Guinea Pig, Horse, Zebrafish (Danio rerio)
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This POR antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the middle region of human POR
Sequence:	VVHTDIDAAK VYMGEMGRLK SYENQKPPFD AKNPFLAAVT TNRKLNQGTE
Predicted Reactivity:	Cow: 100%, Dog: 100%, Guinea Pig: 100%, Horse: 93%, Human: 100%, Mouse: 100%, Rabbit: 100%, Rat: 100%, Zebrafish: 86%
Characteristics:	This is a rabbit polyclonal antibody against POR. It was validated on Western Blot using a cell lysate as a positive control.
Purification:	Affinity Purified

Target Details

Target:	POR
---------	-----

Target Details

Alternative Name:	POR (POR Products)
Background:	<p>POR is an endoplasmic reticulum membrane oxidoreductase with an FAD-binding domain and a flavodoxin-like domain. The protein binds two cofactors, FAD and FMN, which allow it to donate electrons directly from NADPH to all microsomal P450 enzymes. Mutations in this POR gene have been associated with various diseases, including apparent combined P450C17 and P450C21 deficiency, amenorrhea and disordered steroidogenesis, congenital adrenal hyperplasia and Antley-Bixler syndrome. This gene encodes an endoplasmic reticulum membrane oxidoreductase with an FAD-binding domain and a flavodoxin-like domain. The protein binds two cofactors, FAD and FMN, which allow it to donate electrons directly from NADPH to all microsomal P450 enzymes. Mutations in this gene have been associated with various diseases, including apparent combined P450C17 and P450C21 deficiency, amenorrhea and disordered steroidogenesis, congenital adrenal hyperplasia and Antley-Bixler syndrome.</p> <p>Publication Note: This RefSeq record includes a subset of the publications that are available for this gene. Please see the Entrez Gene record to access additional publications.</p> <p>Alias Symbols: CPR, CYPOR, DKFZp686G04235, FLJ26468, P450R</p> <p>Protein Interaction Partner: UBC, CYP2C9, PGRMC1, STAT1, INSIG1, CYP3A4, CYP2E1, CYP2D6, CYP2C19, CYP2A6, CYP1A2, UBD, SUMO2, RABEPK, FANCC, CYB5A, CYP17A1, XRCC6, HMOX1,</p> <p>Protein Size: 680</p>
Molecular Weight:	77 kDa
Gene ID:	5447
NCBI Accession:	NM_000941 , NP_000932
UniProt:	Q63HL4
Pathways:	Regulation of Hormone Metabolic Process , Regulation of Hormone Biosynthetic Process , SARS-CoV-2 Protein Interactome

Application Details

Application Notes:	Optimal working dilutions should be determined experimentally by the investigator.
Comment:	Antigen size: 680 AA
Restrictions:	For Research Use only

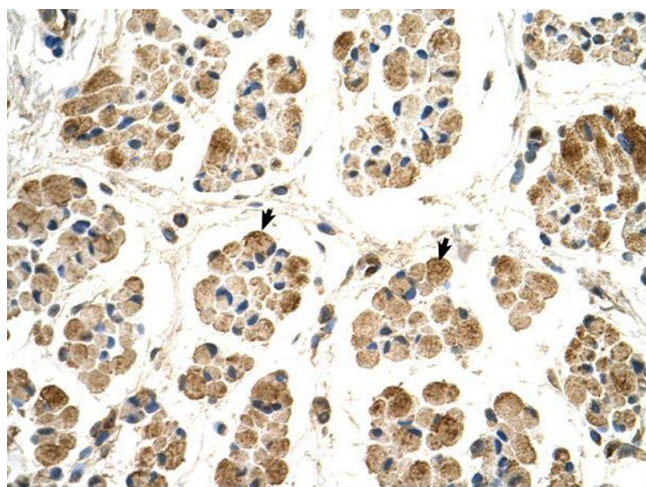
Handling

Format:	Liquid
Concentration:	Lot specific
Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

Publications

Product cited in:	Lee, Kim, Yoon, Lee: "Cytochrome P450 system expression and DNA adduct formation in the liver of Zacco platypus following waterborne benzo(a)pyrene exposure: implications for biomarker determination." in: Environmental toxicology , Vol. 29, Issue 9, pp. 1032-42, (2014) (PubMed).
-------------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Images



Immunohistochemistry

Image 1.



Western Blotting

Image 2. WB Suggested Anti-POR Antibody Titration:
0.25ug/ml Positive Control: 293T cells lysate