

Anti-POR Picoband Antibody

Catalog # ABO12422

Product Information

Application	WB, IHC-P
Primary Accession	P16435
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for NADPH--cytochrome P450 reductase(POR) detection. Tested with WB, IHC-P in Human;Mouse;Rat.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	5447
Other Names	NADPH--cytochrome P450 reductase {ECO:0000255 HAMAP-Rule:MF_03212}, CPR {ECO:0000255 HAMAP-Rule:MF_03212}, P450R {ECO:0000255 HAMAP-Rule:MF_03212}, 1.6.2.4 {ECO:0000255 HAMAP-Rule:MF_03212}, POR {ECO:0000255 HAMAP-Rule:MF_03212}, CYPOR
Calculated MW	76690
Application Details	Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, Mouse, Rat, By Heat Western blot, 0.1-0.5 µg/ml, Human, Mouse, Rat
Subcellular Localization	Endoplasmic reticulum membrane; Peripheral membrane protein. Anchored to the ER membrane by its N- terminal hydrophobic region.
Source	Eukaryota
Protein Name	NADPH--cytochrome P450 reductase
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human POR (633-668aa RNMARDVQNTFYDIVAELGAMEHAQAVDYIKKLMTK), different from the related mouse and rat sequences by five amino acids.
Purification	Immunogen affinity purified.

Cross Reactivity	No cross reactivity with other proteins.
Storage	At -20 °C for one year. After r ° Constitution, at 4 °C for one month. It ° Can also be aliquotted and stored frozen at -20 °C for a longer time.Avoid repeated freezing and thawing.

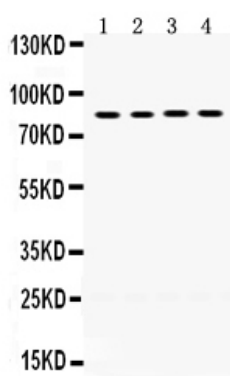
Protein Information

Name	POR {ECO:0000255 HAMAP-Rule:MF_03212}
Synonyms	CYPOR
Function	This enzyme is required for electron transfer from NADP to cytochrome P450 in microsomes. It can also provide electron transfer to heme oxygenase and cytochrome B5.
Cellular Location	Endoplasmic reticulum membrane {ECO:0000255 HAMAP-Rule:MF_03212}; Single-pass membrane protein {ECO:0000255 HAMAP-Rule:MF_03212}; Cytoplasmic side {ECO:0000255 HAMAP- Rule:MF_03212}

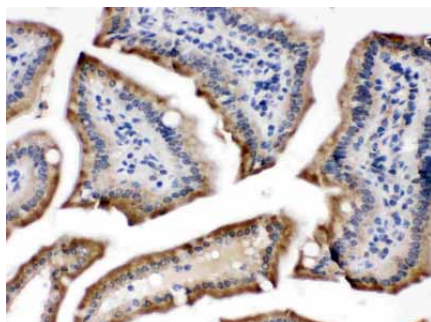
Background

POR is a membrane-bound enzyme required for electron transfer from NADPH to cytochrome P450 in the endoplasmic reticulum of the eukaryotic cell. The 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.

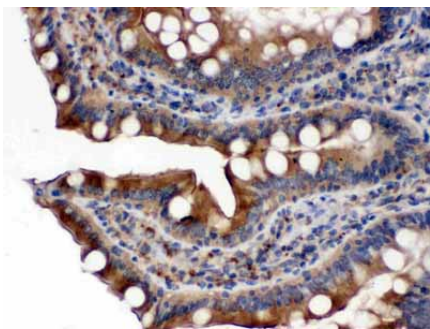
Images



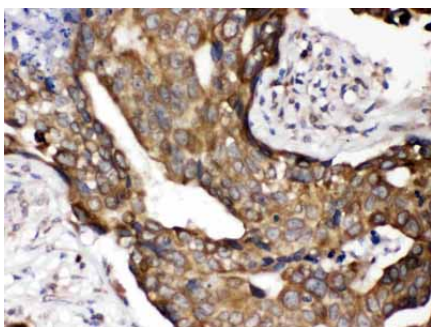
Anti- POR Picoband antibody, ABO12422, Western blotting All lanes: Anti POR (ABO12422) at 0.5ug/ml Lane 1: Rat Liver Tissue Lysate at 50ug Lane 2: Human Placenta Tissue Lysate at 50ug Lane 3: HEPG2 Whole Cell Lysate at 40ug Lane 4: HEPA Whole Cell Lysate at 40ug Predicted bind size: 77KD Observed bind size: 85KD



Anti- POR Picoband antibody, ABO12422, IHC(P) IHC(P): Mouse Intestine Tissue



Anti- POR Picoband antibody, ABO12422,IHC(P)IHC(P):
Rat Intestine Tissue



Anti- POR Picoband antibody, ABO12422,IHC(P)IHC(P):
Human Mammary Cancer Tissue

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