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Tel: 858.875.1900 Fax: 858.875.1999

Anti-POR Picoband Antibody
Catalog # ABO12422

Specification

Anti-POR Picoband Antibody - Product Information

Application	**WB, IHC**
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.

Anti-POR Picoband Antibody - 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 MW KDa

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.

Protein Name
NADPH--cytochrome P450 reductase

Contents
Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.

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.**

Anti-POR Picoband Antibody - 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}

Anti-POR Picoband Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-POR Picoband Antibody - Images

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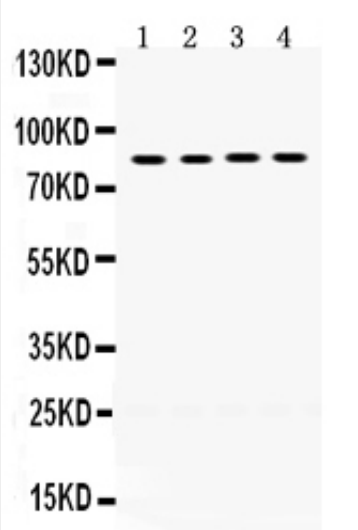
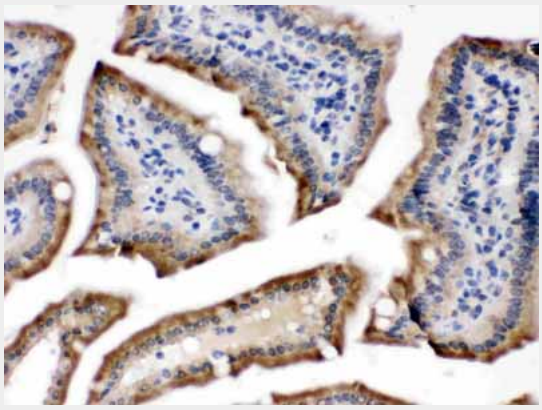
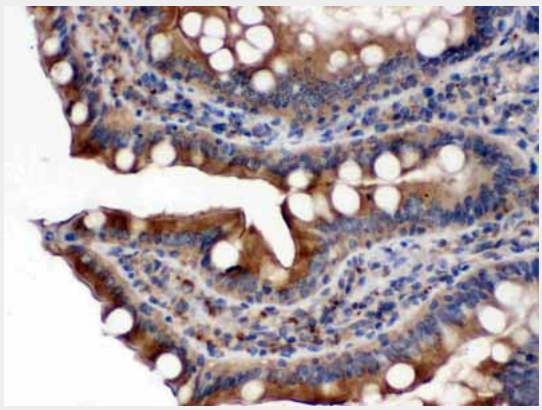


Anti- POR Picoband antibody, ABO12422, Western blottingAll lanes: Anti POR (ABO12422) at 0.5ug/mlLane 1: Rat Liver Tissue Lysate at 50ugLane 2: Human Placenta Tissue Lysate at 50ugLane 3: HEPG2 Whole Cell Lysate at 40ugLane 4: HEPA Whole Cell Lysate at 40ugPredicted bind size: 77KDObserved bind size: 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

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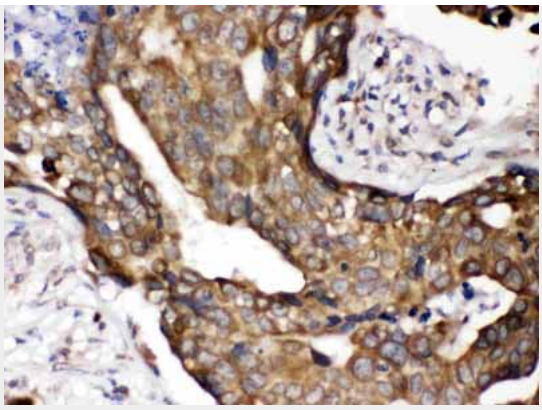

Anti- POR Picoband antibody, ABO12422,IHC(P)IHC(P): Human Mammary Cancer Tissue

Anti-POR Picoband Antibody - Background

POR is a membrane-boundenzyme required for electron transfer from NADPH to cytochrome P450 in the endoplasmic reticulum of theeukaryotic 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.