

Anti-POR Antibody

Catalog # ABO11258

Product Information

Application	WB, IHC-P, ICC
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, ICC 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, Rat, Mouse, By Heat Immunocytochemistry , 0.5-1 µg/ml, Human, Mouse, Rat Western blot, 0.1-0.5 µg/ml, Human, Rat, Mouse
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 Thimerosal, 0.05mg NaN ₃ .
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human POR (659-677aa DYIKKLMTKGRYSLDVWS), different from the related rat and mouse sequences by one amino acid.

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.
Sequence Similarities	In the C-terminal section; belongs to the flavoprotein pyridine nucleotide cytochrome reductase family.

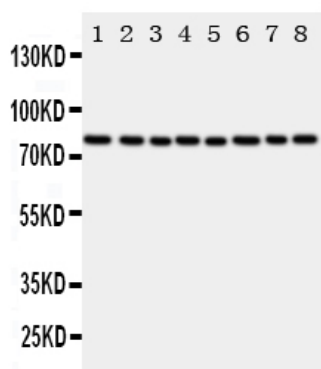
Protein Information

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

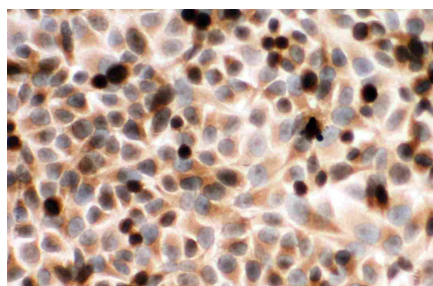
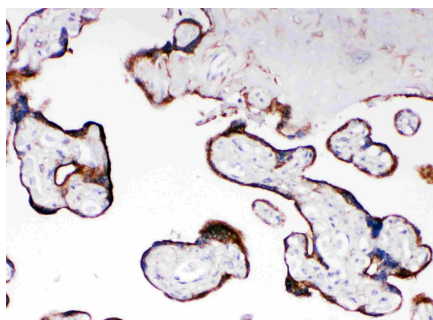
POR is a membrane-bound enzyme required for electron transfer from NADPH to cytochrome P450 in the endoplasmic reticulum of the eukaryotic cell. The gene encodes an endoplasmic reticulum membrane oxidoreductase with an FAD-binding domain and a flavodoxin-like domain. The protein binds two cofactors, 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 antibody, ABO11258, Western blotting
Lane 1: Rat Ovary Tissue Lysate
Lane 2: Rat Lung Tissue Lysate
Lane 3: Rat Testis Tissue Lysate
Lane 4: Rat Spleen Tissue Lysate
Lane 5: A549 Cell Lysate
Lane 6: HELA Cell Lysate
Lane 7: SKOV Cell Lysate
Lane 8: MCF-7 Cell Lysate

Anti-POR antibody, ABO11258, IHC(P)
IHC(P): Human Placenta Tissue



Anti-POR antibody, ABO11258, ICCICC: HELA Cell

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