

Datasheet for ABIN3044023
anti-POR antibody (C-Term)



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3 Images

Overview

Quantity:	100 µg
Target:	POR
Binding Specificity:	AA 659-677, C-Term
Reactivity:	Human, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This POR antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunocytochemistry (ICC)

Product Details

Purpose:	Rabbit IgG polyclonal antibody for NADPH-cytochrome P450 reductase(POR) detection. Tested with WB, IHC-P, ICC in Human,Mouse,Rat.
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.
Sequence:	DYIKKLMTKG RYSLDVWS
Isotype:	IgG
Cross-Reactivity (Details):	Predicted Cross Reactivity: mouse No cross reactivity with other proteins. Predicted Cross Reactivity: Species predicted to be fit for the product based on sequence

Product Details

similarities.

Characteristics: Rabbit IgG polyclonal antibody for NADPH--cytochrome P450 reductase(POR) detection. Tested with WB, IHC-P, ICC in Human,Mouse,Rat.

Gene Name: P450(cytochrome) oxidoreductase

Protein Name: NADPH--cytochrome P450 reductase

Purification: Immunogen affinity purified.

Target Details

Target: POR

Alternative Name: POR ([POR Products](#))

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.

Synonyms: CPR antibody|CYPOR antibody|DKFZp686G04235 antibody|FLJ26468 antibody|NADPH Cytochrome P450 Reductase antibody|NADPH dependent cytochrome P450 reductase antibody|NADPH--cytochrome P450 reductase antibody|NCPR_HUMAN antibody|P450(cytochrome) oxidoreductase antibody|P450 Cytochrome Oxidoreductase antibody|P450R antibody|POR antibody

UniProt: [P16435](#)

Pathways: [Regulation of Hormone Metabolic Process](#), [Regulation of Hormone Biosynthetic Process](#), [SARS-CoV-2 Protein Interactome](#)

Application Details

Application Notes: WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, Rat, Predicted Species: Mouse
IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Human, Rat, Predicted Species: Mouse,
Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections.
ICC: Concentration: 0.5-1 µg/mL, Tested Species: Human, Predicted Species: Mouse, Rat

Application Details

Notes: Tested Species: Species with positive results. Predicted Species: Species predicted to be fit for the product based on sequence similarities. Other applications have not been tested.
Optimal dilutions should be determined by end users.

Comment: Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P) and ICC.

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.

Concentration: 500 µg/mL

Buffer: Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na₂HPO₄, 0.05 mg Thimerosal, 0.05 mg Sodium azide.

Preservative: Thimerosal (Merthiolate), Sodium azide

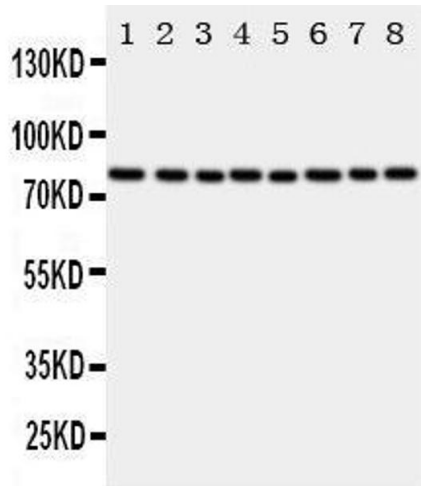
Precaution of Use: This product contains Sodium azide and Thimerosal (Merthiolate): POISONOUS AND HAZARDOUS SUBSTANCES which should be handled by trained staff only.

Handling Advice: Avoid repeated freezing and thawing.

Storage: 4 °C/-20 °C

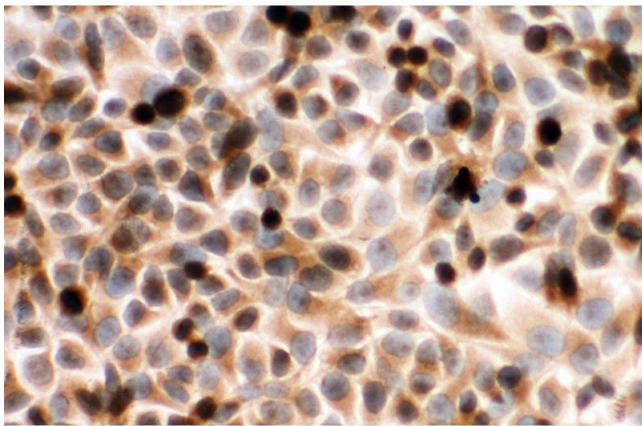
Storage Comment: At -20°C for one year. After reconstitution, at 4°C for one month.
It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

Expiry Date: 12 months



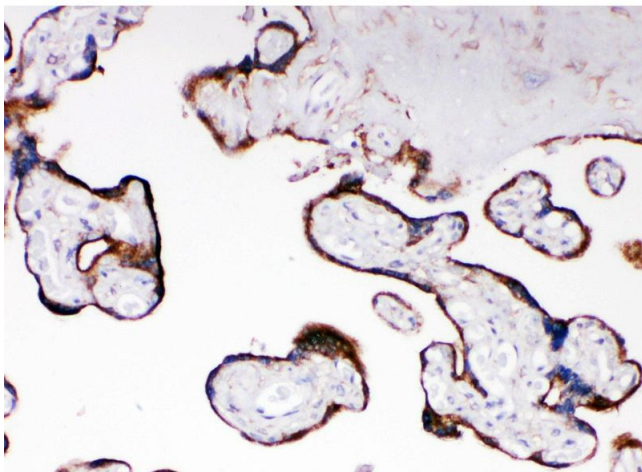
Western Blotting

Image 1. Lane 8: MCF-7 Cell Lysate



Immunohistochemistry

Image 2. Anti-Cytochrome P450 Reductase antibody, ICC
ICC: HELA Cell



Immunohistochemistry

Image 3. Anti-Cytochrome P450 Reductase antibody,
IHC(P) IHC(P): Human Placenta Tissue