

Rabbit Cytochrome P450 Monoclonal Antibody | anti-POR antibody

Cytochrome P450 Reductase Antibody

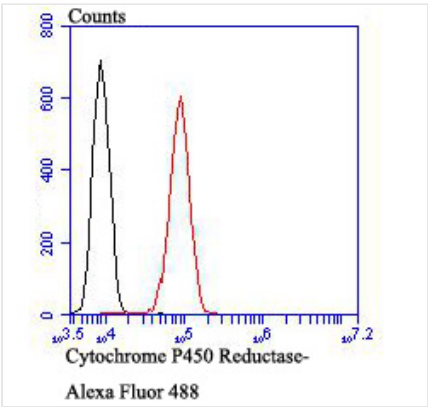
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA30449	Rabbit	Human, Mouse, Rat	Western Blot, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Flow Cytometry, Functional Assay

PRODUCT SYNONYMS

Cytochrome P450; Monoclonal Antibody; Cytochrome P450 Reductase Antibody; CPR antibody; CYPOR antibody; Cytochrome p450 oxidoreductase 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; anti-POR antibody

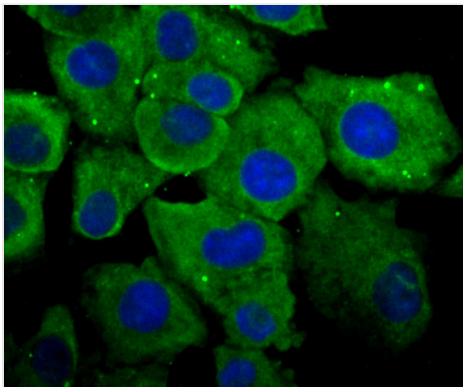
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Monoclonal
Clone Number	JB54-31
Purity/Purification	ProA affinity purified
Form/Format	1*TBS (pH7.4), 1% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.
Applicable Applications for anti-POR antibody	WB (Western Blot), ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), FCM/FACS (Flow Cytometry)
Application Notes	WB: 1:500-1:1000 IHC: 1:50-1:200 ICC: 1:50-1:200 FC/FACS: 1:50-1:100
Antibody Type	Recombinant Antibody
Immunogen	Recombinant protein
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C.



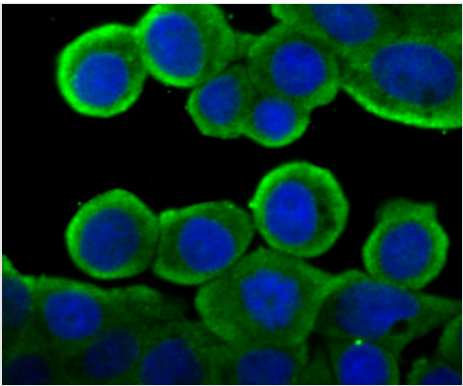
FCM (Flow Cytometry)

Flow cytometric analysis of HepG2 cells with Cytochrome P450 Reductase antibody at 1/100 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black). Alexa Fluor 488-conjugated goat anti-rabbit IgG was used as the secondary antibody.



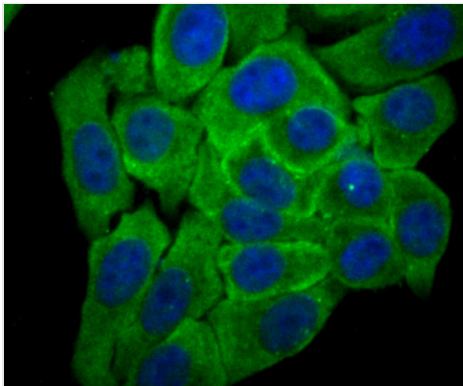
ICC (Immunocytochemistry)

ICC staining Cytochrome P450 Reductase in A549 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



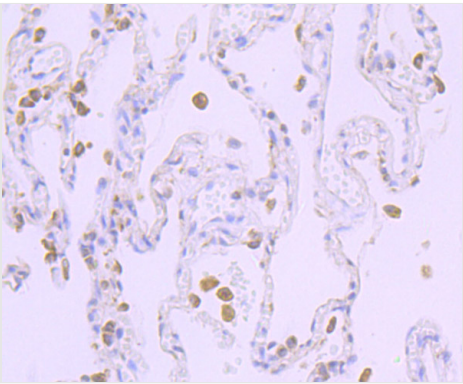
ICC (Immunocytochemistry)

ICC staining Cytochrome P450 Reductase in LOVO cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



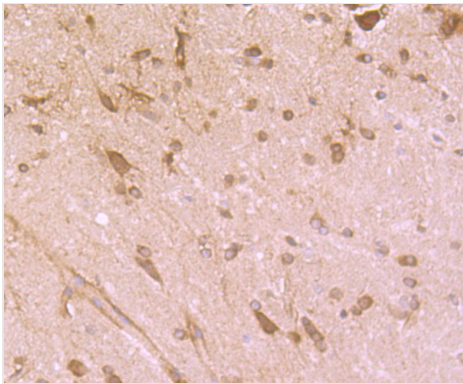
ICC (Immunocytochemistry)

ICC staining Cytochrome P450 Reductase in HepG2 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



IHC (Immunohistochemistry)

Immunohistochemical analysis of paraffin-embedded human lung cancer tissue using anti-Cytochrome P450 Reductase antibody. Counter stained with hematoxylin.



IHC (Immunohistochemistry)

Immunohistochemical analysis of paraffin-embedded rat brain tissue using anti-Cytochrome P450 Reductase antibody. Counter stained with hematoxylin.

ADDITIONAL INFORMATION

Related Product Information for anti-POR antibody	P450 enzymes constitute a family of monooxygenase enzymes that are involved in the metabolism of a wide array of endogenous and xenobiotic compounds. Several P450 enzymes have been classified by sequence similarities as members of the CYP1A and CYP2A subfamilies. CYPOR, also known as cytochrome P450 reductase and NADPH cytochrome P450 reductase, is a microsomal enzyme responsible for the transfer of electrons from NADPH to cytochrome P450 enzymes during the P450 catalytic cycle. CYPOR is localized to the endoplasmic reticulum, where it is also able to transfer electrons to heme oxygenase and cytochrome b5. CYPOR is structurally related to two separate flavoprotein families, ferredoxin nucleotide reductase (FNR) and flavodoxin. Electron transfer of CYPOR requires the binding of two flavin cofactors, FAD and FMN, to the FNR and flavodoxin domains, respectively.
Product Categories/Family for anti-POR antibody	Total protein Ab

NCBI AND UNIPROT INFORMATION

NCBI GI #	127139033
NCBI GeneID	5447
NCBI Accession #	NP_000932.3
NCBI GenBank Nucleotide #	NM_000941.2
UniProt Accession #	P16435; Q16455; Q197M5; Q8N181; Q9H3M8; Q9UDT3
Molecular Weight	76,690 Da
NCBI Official Full Name	NADPH--cytochrome P450 reductase
NCBI Official Synonym Full Names	cytochrome p450 oxidoreductase
NCBI Official Symbol	POR
NCBI Official Synonym Symbols	CPR; CYPOR; P450R
NCBI Protein Information	NADPH--cytochrome P450 reductase
UniProt Protein Name	NADPH--cytochrome P450 reductase
UniProt Gene Name	POR
UniProt Synonym Gene Names	CPR; P450R
UniProt Entry Name	NCPR_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/cytochrome-p450-antibody-clone-jb54-31-western-blot-immunocytochemistry-immunofluorescence-immunohistochemistry-flow-cytometry-elisa/30449>