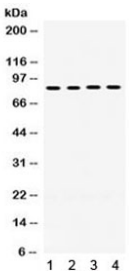
POR Antibody / CYPOR / Cytochrome P450 Oxidoreductase (R31983)

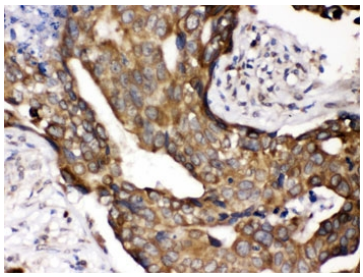
Catalog No.	Formulation	Size
R31983	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

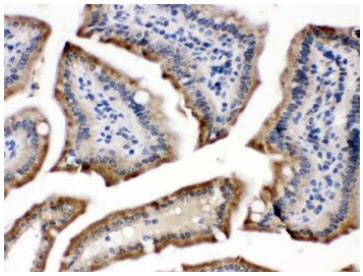
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide
UniProt	P16435
Localization	Cytoplasmic, membrane
Applications	Western blot: 0.1-0.5ug/ml IHC (FFPE): 0.5-1ug/ml FACS: 1-3ug/10^6 cells
Limitations	This POR antibody is available for research use only.



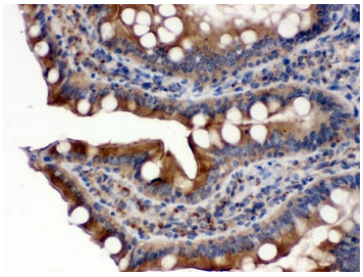
Western blot testing of 1) rat liver, 2) human placenta, 3) human HepG2 and 4) mouse HEPA1-6 lysate with POR antibody. Predicted molecular weight: ~77 kDa, observed here at ~85 kDa.



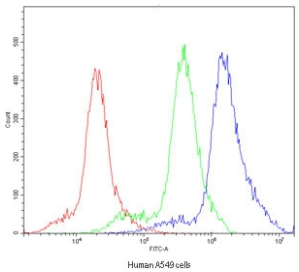
IHC testing of FFPE human breast cancer with POR antibody. HIER: Boil the paraffin sections in pH 6, 10mM citrate buffer for 20 minutes and allow to cool prior to staining.



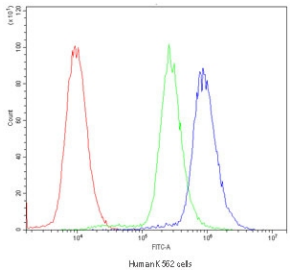
IHC testing of FFPE mouse intestine with POR antibody. HIER: Boil the paraffin sections in pH 6, 10mM citrate buffer for 20 minutes and allow to cool prior to staining.



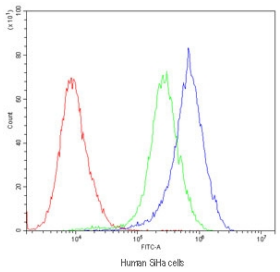
IHC testing of FFPE rat intestine with POR antibody. HIER: Boil the paraffin sections in pH 6, 10mM citrate buffer for 20 minutes and allow to cool prior to staining.



Flow cytometry testing of human A549 cells with POR antibody at 1ug/10^6 cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue=POR antibody.



Flow cytometry testing of human K562 cells with POR antibody at 1ug/10^6 cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue=POR antibody.



Flow cytometry testing of human SiHa cells with POR antibody at 1ug/10^6 cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue=POR antibody.

Description

POR is a membrane-bound enzyme 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.

Application Notes

Optimal dilution of the POR antibody should be determined by the researcher.

Immunogen

Amino acids RNMARDVQNTFYDIVAELGAMEHAQAVDYIKKLMTK of human Cytochrome P450 Oxidoreductase were used as the immunogen for the POR antibody.

Storage

After reconstitution, the POR antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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