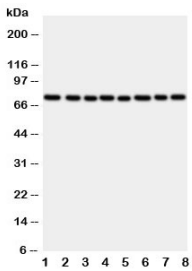
CYPOR Antibody / Cytochrome P450 Oxidoreductase/ POR (R31055)

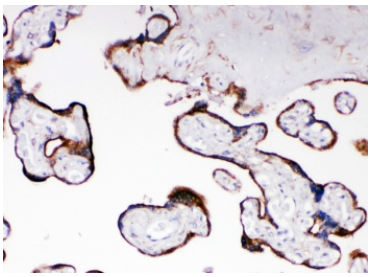
Catalog No.	Formulation	Size
R31055	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

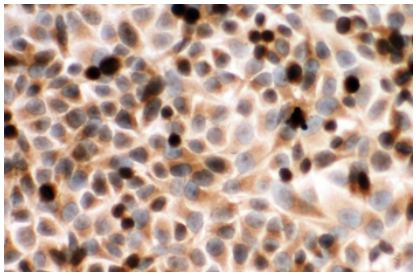
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide/thimerosal
UniProt	P16435
Localization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



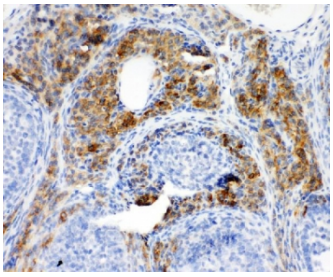
Western blot testing of CYPOR antibody and rat samples: 1. ovary; 2. lung; 3. testis; 4. spleen; and human samples 5. A549; 6. HeLa; 7. SKOV; 8. MCF-7 cell lysate. Predicted/observed molecular weight: ~77 kDa.



IHC-P: CYPOR antibody testing of human placenta tissue. HIER: steamed with pH6 citrate buffer.



ICC testing of CYPOR antibody and human placenta cells



IHC staining of FFPE rat ovary with CYPOR antibody. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 20 min and allow to cool before testing.

Description

Cytochrome P450 Oxidoreductase (CYPOR), also known as Cytochrome P450 Reductase, is a membrane-bound enzyme required for electron transfer to cytochrome P450 in the endoplasmic reticulumof the eukaryotic cell from a FAD- and FMN-containing enzyme NADPH: cytochrome P450 reductase. By Southern blot analysis of DNA isolated from a panel of 8 independent human-rodent somatic cell hybrids, Shephard et al.(1989) determined that CYPOR is encoded by a single gene located on 7pter-q22. By in situ hybridization to metaphase chromosomes, they refined the localization to 7q11.2. Cytochrome P450 oxidoreductase is a flavoprotein that donates electrons to all microsomal P450 enzymes, including the steroidogenic enzymes P450c17 (CYP17A1), P450c21 (CYP21A2), and CYP51A1 (Miller, 1986).

Application Notes

The stated application concentrations are suggested starting amounts. Titration of the CYPOR antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

An amino acid sequence from the C-terminus of human Cytochrome P450 Oxidoreductase (DYIKKLMTKGRYSLDVWS) was used as the immunogen for this CYPOR antibody.

Storage

After reconstitution, the CYPOR 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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