

A8142

Leader in Biomolecular Solutions for Life Science



[KO Validated] CYPOR Rabbit pAb

Catalog No.: A8142

KO Validated

1 Publications

Basic Information

Observed MW

77kDa

Calculated MW

77kDa

Category

Polyclonal Antibody

Applications

WB, IHC-P, IF/ICC, ELISA

Cross-Reactivity

Human, Mouse, Rat

Background

This gene encodes an endoplasmic reticulum membrane oxidoreductase that is essential for multiple metabolic processes, including reactions catalyzed by cytochrome P450 proteins for metabolism of steroid hormones, drugs and xenobiotics. The encoded protein has a flavin adenine dinucleotide (FAD)-binding domain and a flavodoxin-like domain which bind two cofactors, FAD and FMN, that allow it to donate electrons directly from NADPH to all microsomal P450 enzymes. Mutations in this gene cause a complex set of disorders, including apparent combined P450C17 and P450C21 deficiency, amenorrhea and disordered steroidogenesis, congenital adrenal hyperplasia and Antley-Bixler syndrome, that resemble those caused by defects in steroid metabolizing enzymes such as aromatase, 21-hydroxylase, and 17 alpha-hydroxylase.

Recommended Dilutions

WB	1:500 - 1:2000
IHC-P	1:50 - 1:100
IF/ICC	1:50 - 1:200

Immunogen Information

Gene ID

5447

Swiss Prot

P16435

Immunogen

Recombinant fusion protein containing a sequence corresponding to amino acids 1-250 of human CYPOR (NP_000932.3).

Synonyms

CPR; CYPOR; P450R; OR

Contact



www.abclonal.com

Product Information

Source

Rabbit

Isotype

IgG

Purification

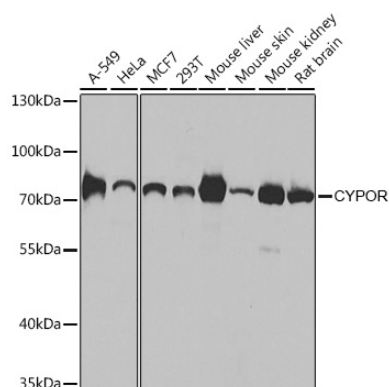
Affinity purification

Storage

Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH 7.3.

Validation Data



Western blot analysis of extracts from normal (control) and CYPOR knockout (KO) HeLa cells, using CYPOR antibody (A8142) at 1:1000 dilution.

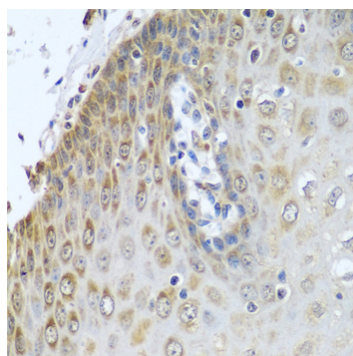
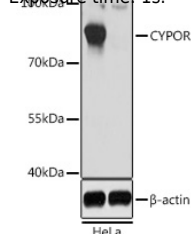
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25µg per lane.

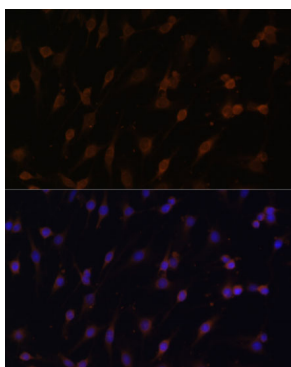
Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

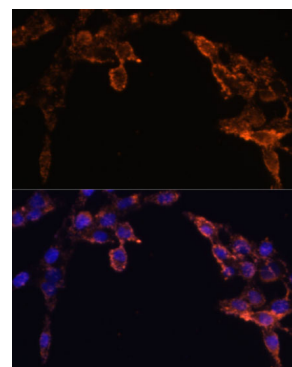
Exposure time: 1s.



Immunohistochemistry analysis of paraffin-embedded human esophagus using CYPOR antibody (A8142) at dilution of 1:100 (40x lens). Perform microwave antigen retrieval with 10 mM PBS buffer pH 7.2 before commencing with IHC staining protocol.

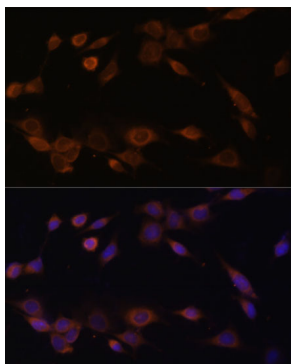


Immunofluorescence analysis of C6 cells using CYPOR Polyclonal Antibody (A8142) at dilution of 1:100 (40x lens). Blue: DAPI for nuclear staining.



Immunofluorescence analysis of HeLa cells using CYPOR Polyclonal Antibody (A8142) at dilution of 1:100 (40x lens). Blue: DAPI for nuclear staining.

Validation Data



Immunofluorescence analysis of NIH-3T3 cells using CYPOR Polyclonal Antibody (A8142) at dilution of 1:100 (40x lens). Blue: DAPI for nuclear staining.