

Anti-Cytochrome P450 2A6 [CYP2A6]

Catalogue number: 151723

Sub-type: Primary antibody

Images:

Contributor

Inventor: Roland Wolf

Institute: University of Dundee

Images:

Tool details

***FOR RESEARCH USE ONLY**

Name: Anti-Cytochrome P450 2A6 [CYP2A6]

Alternate name:

Class: Polyclonal

Conjugate: Unconjugated

Description: CYP2A6, encodes a member of the cytochrome P450 superfamily of enzymes. The cytochrome P450 proteins are monooxygenases which catalyze many reactions involved in drug metabolism and synthesis of cholesterol, steroids and other lipids. This protein localizes to the endoplasmic reticulum and its expression is induced by phenobarbital. The enzyme is known to hydroxylate coumarin, and also metabolizes nicotine, aflatoxin B1, nitrosamines, and some pharmaceuticals. This gene is part of a large cluster of cytochrome P450 genes from the CYP2A, CYP2B and CYP2F subfamilies on chromosome 19q. CYP 2A6 exhibits high coumarin 7-hydroxylase activity and can act in the hydroxylation of the anti-cancer drugs cyclophosphamide and ifosfamide.

Purpose:

Parental cell:

Organism:

Tissue:

Model:

Gender:

Isotype:

Reactivity: Human

Selectivity:

Host: Sheep

Immunogen: Purified recombinant human P450s

Immunogen UNIPROT ID:

Sequence:

Growth properties:

Production details:

Formulation:

Recommended controls: Human Liver Microsomes

Bacterial resistance:

Selectable markers:

Additional notes:

Target details

Target: Cytochrome P450 2A6, CYP2A6

Target alternate names:

Target background: CYP2A6, encodes a member of the cytochrome P450 superfamily of enzymes. The cytochrome P450 proteins are monooxygenases which catalyze many reactions involved in drug metabolism and synthesis of cholesterol, steroids and other lipids. This protein localizes to the endoplasmic reticulum and its expression is induced by phenobarbital. The enzyme is known to hydroxylate coumarin, and also metabolizes nicotine, aflatoxin B1, nitrosamines, and some pharmaceuticals. This gene is part of a large cluster of cytochrome P450 genes from the CYP2A, CYP2B and CYP2F subfamilies on chromosome 19q. CYP 2A6 exhibits high coumarin 7-hydroxylase activity and can act in the hydroxylation of the anti-cancer drugs cyclophosphamide and ifosfamide.

Molecular weight:

Ic50:

Applications

Application: WB

Application notes:

Handling

Format: Liquid
Concentration:
Passage number:
Growth medium:
Temperature:
Atmosphere:
Volume:
Storage medium:
Storage buffer:
Storage conditions: -80° C
Shipping conditions: Shipping at 4° C

Related tools

Related tools:

References

References: Henderson et al. 2015. Biochem J. 465(3):479-88. PMID: 25377919. ; Application of a novel regulatable Cre recombinase system to define the role of liver and gut metabolism in drug oral bioavailability.