

Anti-Cytochrome P450 4V2 [M29-P3B10]

Catalogue number: 152159

Sub-type: Primary antibody

Images:

Contributor

Inventor: Ayham Alnabulsi

Institute: Vertebrate Antibodies Limited

Images:

Tool details

***FOR RESEARCH USE ONLY**

Name: Anti-Cytochrome P450 4V2 [M29-P3B10]

Alternate name: Cytochrome P45; Family 4; Subfamily V; Polypeptide 2; Docosahexaenoic Acid Omega-Hydroxylase CYP4V2; CYP4AH1; BCD

Class: Monoclonal

Conjugate: Unconjugated

Description: Cytochrome P450, family 4, subfamily V, polypeptide 2 (CYP4V2) encodes a member of the cytochrome P450 superfamily of enzymes that are a group of heme-thiolate monooxygenases. Cytochromes P450 catalyze many reactions involved in drug metabolism and synthesis of cholesterol, steroids and other lipids. CYP4V2 catalyzes the omega-hydroxylation of medium-chain saturated fatty acids such as laurate, myristate and palmitate in an NADPH-dependent pathway. CYP4V2 may have a role in fatty acid and steroid metabolism in the eye and its mutations are associated with Bietti's crystalline dystrophy (BCD) and retinitis pigmentosa.

Purpose:

Parental cell:

Organism:

Tissue:

Model:

Gender:

Isotype: IgG1 kappa

Reactivity: Human

Selectivity:

Host: Mouse

Immunogen: Peptide sequence KREELGLEGQ (amino acids 495-504)

Immunogen UNIPROT ID:

Sequence:

Growth properties:

Production details:

Formulation:

Recommended controls: ELISA- Peptide immunogen; Western Blot- Human liver microsomes; IHC- Human liver

Bacterial resistance:

Selectable markers:

Additional notes:

Target details

Target: Cytochrome P450, family 4, subfamily V, polypeptide 2 (CYP4V2)

Target alternate names:

Target background: Cytochrome P450, family 4, subfamily V, polypeptide 2 (CYP4V2) encodes a member of the cytochrome P450 superfamily of enzymes that are a group of heme-thiolate monooxygenases. Cytochromes P450 catalyze many reactions involved in drug metabolism and synthesis of cholesterol, steroids and other lipids. CYP4V2 catalyzes the omega-hydroxylation of medium-chain saturated fatty acids such as laurate, myristate and palmitate in an NADPH-dependent pathway. CYP4V2 may have a role in fatty acid and steroid metabolism in the eye and its mutations are associated with Bietti's crystalline dystrophy (BCD) and retinitis pigmentosa.

Molecular weight:

Ic50:

Applications

Application: ELISA ; IHC ; WB

Application notes:

Handling

Format: Liquid
Concentration: 1 mg/ml
Passage number:
Growth medium:
Temperature:
Atmosphere:
Volume:
Storage medium:
Storage buffer: PBS with 0.02% azide
Storage conditions: -15° C to -25° C
Shipping conditions: Shipping at 4° C

Related tools

Related tools:

References

References: Barnes, T. S. (1987). The generation and characterization of monoclonal antibodies to human cytochrome P450. Ph. D. Thesis. University of Aberdeen.