

Anti-Cytochrome P450 1B1 [5D3]

Catalogue number: 153656

Sub-type: Primary antibody

Images:

Contributor

Inventor: Ayham Alnabulsi

Institute: Vertebrate Antibodies Limited

Images:

Tool details

***FOR RESEARCH USE ONLY**

Name: Anti-Cytochrome P450 1B1 [5D3]

Alternate name: Aryl hydrocarbon hydroxylase antibody, CP1B antibody, CP1B1_HUMAN antibody, Cyp1b1 antibody, CYPIB1 antibody, Cytochrome P45 1B1 antibody, Cytochrome P45 family 1 subfamily B polypeptide 1 antibody, Cytochrome P45 subfamily I (dioxin inducible) polypeptide 1 (glaucoma 3 primary infantile) antibody, Flavoprotein linked monooxygenase antibody, GLC3A antibody, Microsomal monooxygenase antibody, P451B1 antibody, Xenobiotic monooxygenase antibody

Class: Monoclonal

Conjugate: Unconjugated

Description: Monoclonal antibody directed against CYP1B1, a possible anti-cancer target.

Purpose:

Parental cell:

Organism:

Tissue:

Model:

Gender:

Isotype: IgG1 kappa

Reactivity: Human

Selectivity:

Host: Mouse

Immunogen: Ovalbumin-conjugated synthetic peptide; PENFDPARFLDKDGL (aa. 437-451). Peptide immunogen is identical in mouse (*Mus musculus*), rat (*Rattus norvegicus*), dog (*Canis familiaris*), pig (*Sus scrofa*) and horse (*Equus caballus*).

Immunogen UNIPROT ID: Q16678

Sequence:

Growth properties:

Production details:

Formulation:

Recommended controls: IHC: formalin-fixed, paraffin-embedded ovarian cancer sections; Western Blot: rhCYP1B1 from lymphoblastoid cells (Gentest); 10mcg microsomal protein / lane

Bacterial resistance:

Selectable markers:

Additional notes:

Target details

Target: Human cytochrome P450 1B1

Target alternate names:

Target background: Cytochrome P450 (CYP) 1B1 is overexpressed in tumour cells and is recognised as a biomarker of the tumour phenotype. Cytochrome P450 1B1 (CYP1B1) is active in the metabolism of oestrogens to reactive catechols and of different procarcinogens. The cytochrome P450 proteins are monooxygenases which catalyse many reactions involved in drug metabolism and the synthesis of cholesterol, steroids and other lipids. Recent studies have highlighted the potential of this enzyme as a novel cancer therapeutic target, resulting in several clinical development programs focused on CYP1B1-activated prodrugs and CYP1B1 inhibitors.

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: Store at -20° C frozen. Avoid repeated freeze / thaw cycles
Shipping conditions: Shipping at 4° C

Related tools

Related tools:

References

References: Artaza et al. 2005. Endocrinology. 146(8):3547-57. PMID: 15878958. ; Myostatin inhibits myogenesis and promotes adipogenesis in C3H 10T(1/2) mesenchymal multipotent cells.