

CYP2C19 Polyclonal Antibody
Catalog # AP69393**Specification****CYP2C19 Polyclonal Antibody - Product Information**

Application	WB, IHC-P, IF
Primary Accession	P33261
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal

CYP2C19 Polyclonal Antibody - Additional Information**Gene ID** 1557**Other Names**

CYP2C19; Cytochrome P450 2C19; (R)-limonene 6-monooxygenase; (S)-limonene 6-monooxygenase; (S)-limonene 7-monooxygenase; CYP11C17; CYP11C19; Cytochrome P450-11A; Cytochrome P450-254C; Mephenytoin 4-hydroxylase

Dilution

WB~~Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/5000. Not yet tested in other applications.
IHC-P~~N/A
IF~~1:50~200

Format

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.

Storage Conditions

-20°C

CYP2C19 Polyclonal Antibody - Protein Information**Name** CYP2C19**Function**

A cytochrome P450 monooxygenase involved in the metabolism of polyunsaturated fatty acids (PUFA) (PubMed:18577768, PubMed:19965576, PubMed:20972997). Mechanistically, uses molecular oxygen inserting one oxygen atom into a substrate, and reducing the second into a water molecule, with two electrons provided by NADPH via cytochrome P450 reductase (NADPH--hemoprotein reductase) (PubMed:18577768, PubMed:19965576, PubMed:20972997). Catalyzes the hydroxylation of carbon-hydrogen bonds. Hydroxylates PUFA specifically at the omega-1

position (PubMed:18577768). Catalyzes the epoxidation of double bonds of PUFA (PubMed:19965576, PubMed:20972997). Also metabolizes plant monoterpenes such as limonene. Oxygenates (R)- and (S)-limonene to produce carveol and perillyl alcohol (PubMed:11950794). Responsible for the metabolism of a number of therapeutic agents such as the anticonvulsant drug S-mephenytoin, omeprazole, proguanil, certain barbiturates, diazepam, propranolol, citalopram and imipramine. Hydroxylates fenbendazole at the 4' position (PubMed:23959307).

Cellular Location

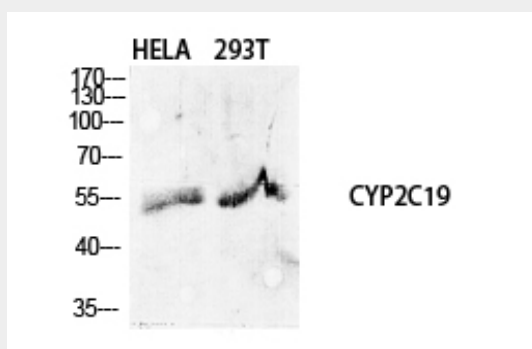
Endoplasmic reticulum membrane; Peripheral membrane protein. Microsome membrane; Peripheral membrane protein

CYP2C19 Polyclonal Antibody - Protocols

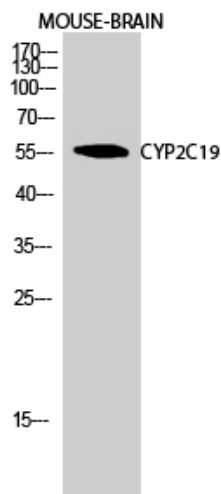
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

CYP2C19 Polyclonal Antibody - Images



Western Blot analysis of various cells using CYP2C19 Polyclonal Antibody diluted at 1:1000



Western Blot analysis of MOUSE-BRAIN cells using CYP2C19 Polyclonal Antibody diluted at 1:1000

CYP2C19 Polyclonal Antibody - Background

Responsible for the metabolism of a number of therapeutic agents such as the anticonvulsant drug S-mephenytoin, omeprazole, proguanil, certain barbiturates, diazepam, propranolol, citalopram and imipramine. Oxygenates (R)- and (S)- limonene to produce carveol and perillyl alcohol (PubMed:11950794). Hydroxylates fenbendazole at the 4' position (PubMed:23959307).