



CYP2C19 rabbit pAb

Cat No.:ES2100

For research use only

Overview

| | |
|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name | CYP2C19 rabbit pAb |
| Host species | Rabbit |
| Applications | WB;IHC;IF;ELISA |
| Species Cross-Reactivity | Human;Rat;Mouse; |
| Recommended dilutions | 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. |
| Immunogen | The antiserum was produced against synthesized peptide derived from human Cytochrome P450 2C19. AA range:241-290 |
| Specificity | CYP2C19 Polyclonal Antibody detects endogenous levels of CYP2C19 protein. |
| Formulation | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide. |
| Storage | Store at -20°C. Avoid repeated freeze-thaw cycles. |
| Protein Name | Cytochrome P450 2C19 |
| Gene Name | CYP2C19 |
| Cellular localization | Endoplasmic reticulum membrane; Peripheral membrane protein. Microsome membrane; Peripheral membrane protein. |
| Purification | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen. |
| Clonality | Polyclonal |
| Concentration | 1 mg/ml |
| Observed band | 56kD |
| Human Gene ID | 1557 |
| Human Swiss-Prot Number | P33261 |
| Alternative 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; |

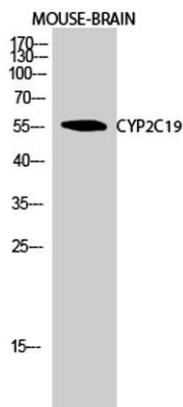
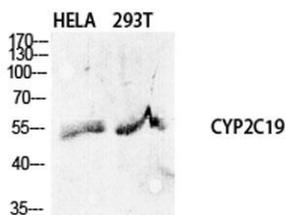




Background

Mephenytoin 4-hydroxylase
cytochrome P450 family 2 subfamily C member
19(CYP2C19) Homo sapiens This gene 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 is known
to metabolize many xenobiotics, including the
anticonvulsive drug mephenytoin, omeprazole,
diazepam and some barbiturates. Polymorphism
within this gene is associated with variable ability to
metabolize mephenytoin, known as the poor
metabolizer and extensive metabolizer phenotypes.
The gene is located within a cluster of cytochrome
P450 genes on chromosome 10q24. [provided by
RefSeq, Jul 2008],

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

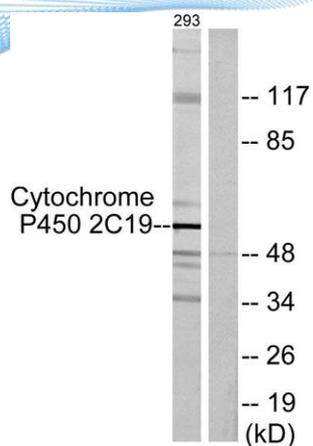


Western Blot analysis of MOUSE-BRAIN cells using
CYP2C19 Polyclonal Antibody diluted at 1:1000

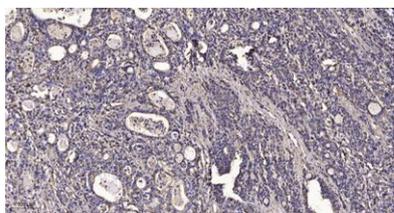




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Western blot analysis of lysates from 293 cells, using Cytochrome P450 2C19 Antibody. The lane on the right is blocked with the synthesized peptide.



Immunohistochemical analysis of paraffin-embedded human Gastric adenocarcinoma. 1, Antibody was diluted at 1:200(4° overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 45min).



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