产品名称：CYP2C19 Rabbit Polyclonal Antibody
产品货号：APRab09652

产品概述（Summary）

产品名称（Production Name）	CYP2C19 Rabbit Polyclonal Antibody
描述（Description）	Rabbit polyclonal Antibody
宿主（Host）	Rabbit
应用（Application）	WB,IHC,ICC/IF,ELISA
种属反应性（Reactivity）	Human,Rat,Mouse

产品性能（Performance）

偶联物（Conjugation）	Unconjugated
修饰（Modification）	Unmodified
同种型（Isotype）	IgG
克隆（Clonality）	Polyclonal
形式（Form）	Liquid
存放说明（Storage）	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
储存溶液（Buffer）	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
纯化方式（Purification）	Affinity purification

免疫原信息（Immunogen）

基因名（Gene Name）	CYP2C19
别名（Alternative Names）	CYP2C19; Cytochrome P450 2C19; (R)-limonene 6-monooxygenase; (S)-limonene 6-monooxygenase; (S)-limonene 7-monooxygenase; CYPIIC17; CYPIIC19; Cytochrome P450-11A; Cytochrome P450-254C; Mephenytoin 4-hydroxylase
基因 ID（Gene ID）	1557.0
蛋白 ID（SwissProt ID）	P33261.The antiserum was produced against synthesized peptide derived from human Cytochrome P450 2C19. AA range:241-290

产品应用（Application）

稀释比（Dilution Ratio）	WB 1:500-1:2000,IHC 1:100-1:300,ICC/IF 1:200-1:1000,ELISA 1:5000-1:10000

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蛋白分子量（Molecular Weight） 56kDa

研究背景（Background）

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],catalytic activity:(+)-(R)-limonene + NADPH + O(2) = (+)-trans-carveol + NADP(+) + H(2)O.,catalytic activity:(-)-(S)-limonene + NADPH + O(2) = (-)-perillyl alcohol + NADP(+) + H(2)O.,catalytic activity:(-)-(S)-limonene + NADPH + O(2) = (-)-trans-carveol + NADP(+) + H(2)O.,caution:P450-254C was originally listed as a separate gene (CYP2C17). Resequencing demonstrated that it is not a separate gene, but a chimera. The 5'-portion corresponds to a partial 2C18 clone, and the 3'-portion corresponds to a partial 2C19 clone.,cofactor:Heme group.,function: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.,induction:P450 can be induced to high levels in liver and other tissues by various foreign compounds, including drugs, pesticides, and carcinogens.,online information:CYP2C19 alleles,polymorphism:Genetic variation in CYP2C19 is responsible for poor drug metabolism [MIM:609535]. Individuals can be characterized as either extensive metabolizers (EM) or poor metabolizers (PM). The PM phenotype is inherited in an autosomal recessive manner, with the EM phenotype comprising both homozygous dominant and heteroyzgote genotypes. There are marked interracial differences in the frequency of this polymorphism. Poor metabolizers represent 2-5% of Caucasians, 13-23% of Asian populations, and as many as 38-79% of individuals of some of the islands of Polynesia and Micronesia. Different alleles of CYP2C19 are known: CYP2C19*1A CYP2C19*1B, CYP2C19*1C, CYP2C19*2A (CYP2C19m1 or CYP2C19m1A), CYP2C19*2B (CYP2C19m1B), CYP2C19*2C (CYP2C19*21), CYP2C19*3A (CYP2C19m2), CYP2C19*3B (CYP2C19*20), CYP2C19*4 (CYP2C19m3), CYP2C19*5A (CYP2C19m4), CYP2C19*5B, CYP2C19*6, CYP2C19*7, CYP2C19*8, CYP2C19*9, CYP2C19*10, CYP2C19*11 CYP2C19*12, CYP2C19*13, CYP2C19*14 CYP2C19*15, CYP2C19*16, CYP2C19*18, CYP2C19*19. Defective CYP2C19*2 and CYP2C19*3 alleles are characterized by a splice mutation and a stop codon, respectively, and account for most of the PM alleles. The sequence shown is that of allele CYP2C19*1B.,similarity:Belongs to the cytochrome P450 family.,

研究领域（Research Area）

Arachidonic acid metabolism;Linoleic acid metabolism;Retinol metabolism;Metabolism of xenobiotics by cytochrome P450;Drug metabolism;

图片（Image Data）

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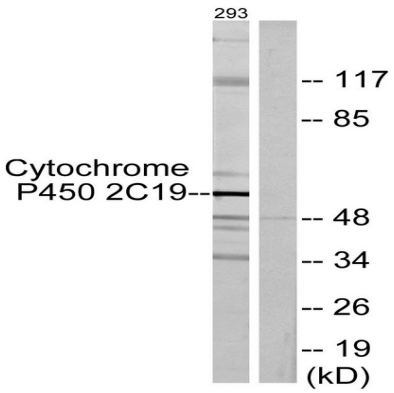
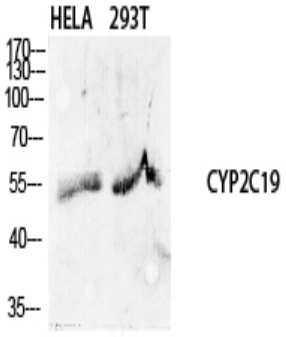
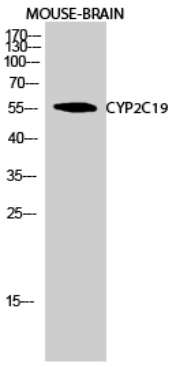


Western blot analysis of lysates from 293 cells, using Cytochrome P450 2C19 Antibody. The lane on the right is blocked with the synthesized peptide.



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

注意事项（Note）

For research use only .