

产品名称: CYP2D6 Rabbit Polyclonal Antibody
产品货号: APRab09656



产品概述 (Summary)

产品名称 (Production Name)	CYP2D6 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

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)	CYP2D6
别名 (Alternative Names)	CYP2D6; CYP2DL1; Cytochrome P450 2D6; CYP1D6; Cytochrome P450-DB1; Debrisoquine 4-hydroxylase
基因 ID (Gene ID)	1565.0
蛋白 ID (SwissProt ID)	P10635.The antiserum was produced against synthesized peptide derived from human Cytochrome P450 2D6. AA range:251-300

产品应用 (Application)

稀释比 (Dilution Ratio)	WB 1:500-1:2000,IHC 1:100-1:300,ICC/IF 1:50-1:200,ELISA 1:5000-1:20000
蛋白分子量 (Molecular Weight)	55kDa

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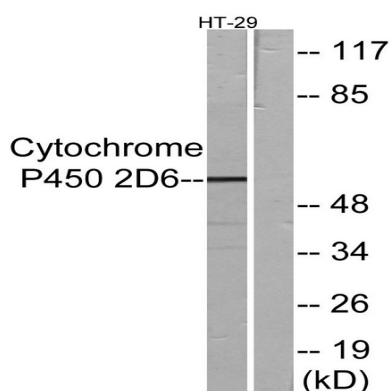
研究背景 (Background)

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 as many as 25% of commonly prescribed drugs. Its substrates include antidepressants, antipsychotics, analgesics and antitussives, beta adrenergic blocking agents, antiarrhythmics and antiemetics. The gene is highly polymorphic in the human population; certain alleles result in the poor metabolizer phenotype, characterized by a decreased ability to metabolize the enzyme's substrates. Some individuals with the poor metabolizer phenotype have no functional protein since they carry 2 null alleles whereas in other individuals the gene is absent. This gene can vary in catalytic activity: $RH + \text{reduced flavoprotein} + O_2 = ROH + \text{oxidized flavoprotein} + H_2O$, cofactor: Heme group, function: Responsible for the metabolism of many drugs and environmental chemicals that it oxidizes. It is involved in the metabolism of drugs such as antiarrhythmics, adrenoceptor antagonists, and tricyclic antidepressants, induction: By pregnancy, online information: CYP2D6 alleles, online information: CYP2D6 entry, polymorphism: Allele CYP2D6*7 was also known as CYP2D6E, allele CYP2D6*9 as CYP2D6C, allele CYP2D6*10 as CYP2D6J, allele CYP2D6*17 as CYP2D6Z, polymorphism: Genetic variations in CYP2D6 are the cause of poor drug metabolism CYP2D6-related [MIM:608902]. The CYP2D6 gene is highly polymorphic. CYP2D6 activity ranges widely within a population comprising ultrarapid (UM), extensive (EM), intermediate (IM) and poor (PM) metabolizer phenotypes. UM and PM are those most at risk for treatment failure or dose-dependent drug toxicity, respectively. Of the Caucasian populations of Europe and North America, 5%-10% are of the PM phenotype and are unable to metabolize the antihypertensive drug debrisoquine and numerous other drugs, polymorphism: Isozymes CYP2D6.45 (Lys-155, Cys-296 and Thr-486) and CYP2D6.46 (His-26, Lys-155, Cys-296 and Thr-486) are functional, similarity: Belongs to the cytochrome P450 family,

研究领域 (Research Area)

Drug metabolism;

图片 (Image Data)

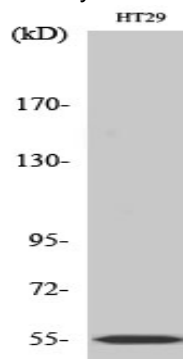


Western blot analysis of lysates from HT-29 cells, using Cytochrome P450 2D6 Antibody. The lane on the right is blocked

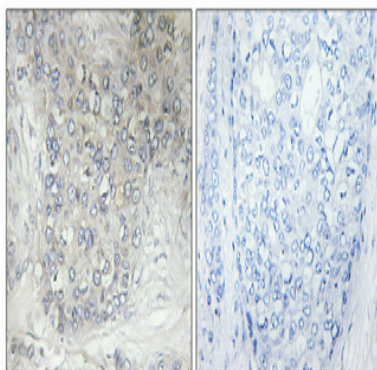
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with the synthesized peptide.



Western Blot analysis of various cells using CYP2D6 Polyclonal Antibody



Immunohistochemical analysis of paraffin-embedded Human breast cancer. Antibody was diluted at 1:100 (4°, overnight) . High-pressure and temperature Tris-EDTA, pH 8.0 was used for antigen retrieval. Negative control (right) obtained from antibody was pre-absorbed by immunogen peptide.

注意事项 (Note)

For research use only .