

产品名称: CYP1A1/2 Rabbit Polyclonal Antibody
产品货号: APRab09629



产品概述 (Summary)

产品名称 (Production Name)	CYP1A1/2 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,Mouse,Rat,Monkey

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)	CYP1A1/CYP1A2
别名 (Alternative Names)	CYP1A1; Cytochrome P450 1A1; CYP1A1; Cytochrome P450 form 6; Cytochrome P450-C; Cytochrome P450-P1; CYP1A2; Cytochrome P450 1A2; CYP1A2; Cytochrome P(3)450; Cytochrome P450 4; Cytochrome P450-P3
基因 ID (Gene ID)	1543/1544
蛋白 ID (SwissProt ID)	P04798/P05177.The antiserum was produced against synthesized peptide derived from human Cytochrome P450 1A1/2. AA range:71-120

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 1:10000-1:20000
蛋白分子量 (Molecular Weight)	58kDa

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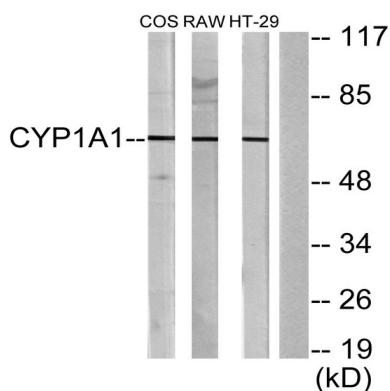
研究背景 (Background)

This gene, CYP1A1, 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 its expression is induced by some polycyclic aromatic hydrocarbons (PAHs), some of which are found in cigarette smoke. The enzyme's endogenous substrate is unknown; however, it is able to metabolize some PAHs to carcinogenic intermediates. The gene has been associated with lung cancer risk. A related family member, CYP1A2, is located approximately 25 kb away from CYP1A1 on chromosome 15. Alternative splicing results in multiple transcript variants encoding distinct isoforms. [provided by RefSeq, Jan 2016], catalytic activity: $\text{RH} + \text{reduced flavoprotein} + \text{O}_2 = \text{ROH} + \text{oxidized flavoprotein} + \text{H}_2\text{O}$, cofactor: Heme group, function: Cytochromes P450 are a group of heme-thiolate monooxygenases. In liver microsomes, this enzyme is involved in an NADPH-dependent electron transport pathway. It oxidizes a variety of structurally unrelated compounds, including steroids, fatty acids, and xenobiotics, induction: By 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD), online information: CYP1A1 alleles, online information: CYP1A1 entry, online information: The Singapore human mutation and polymorphism database, similarity: Belongs to the cytochrome P450 family, tissue specificity: Lung, lymphocytes and placenta,

研究领域 (Research Area)

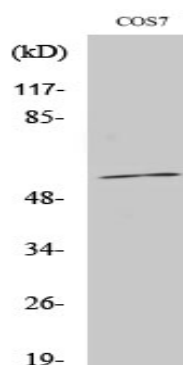
Steroid hormone biosynthesis; Tryptophan metabolism; Retinol metabolism; Metabolism of xenobiotics by cytochrome P450;

图片 (Image Data)

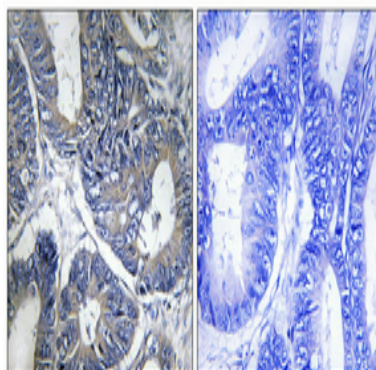


Western blot analysis of lysates from COS7, RAW264.7, and HT-29 cells, using Cytochrome P450 1A1/2 Antibody. The lane on the right is blocked with the synthesized peptide.

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Western Blot analysis of various cells using CYP1A1/2 Polyclonal Antibody



Immunohistochemical analysis of paraffin-embedded Human colon 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 .