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[Primary Antibody]

Rabbit Anti-Cytochrome P450 1A1 + 1A2 antibody

Catalog Number: SL14174R

FOR RESEARCH USE ONLY

[DATASHEET]

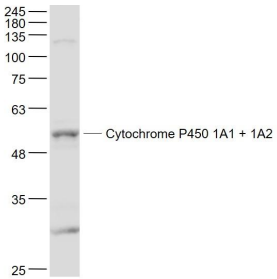
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Cytochrome P450 1A1 + 1A2
Immunogen:	KLH conjugated synthetic peptide derived from human Cytochrome P450 1A1 + 1A2: 61-160/512
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	WB=1:500-2000 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Mouse(predicted:Human,Rat,Dog,Cow,Rabbit,Sheep)
Predicted MW.:	58kDa
Subcellular Location:	cytoplasmic The cell membrane
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. [provided by RefSeq, Jul 2008] **Function:** Cytochrome P450 oxidase (commonly abbreviated CYP) is a generic term for a large number of related, but distinct, oxidative enzymes important in vertebrate physiology. The cytochrome P450 mixed-function monooxygenase system is probably the most important element of Phase I

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	metabolism in mammals. P450s are membrane-bound, either in the inner membrane of mitochondria or in the endoplasmic reticulum of cells where they metabolise thousands of endogenous and exogenous compounds. In the liver, these substrates include toxins, drugs, and other unneeded and potentially harmful molecules. Humans have 18 families of cytochrome P450 genes and 43 subfamilies; the CYP1 family is involved in drug metabolism and includes 3 subfamilies, 3 genes and 1 pseudogene. **Subcellular Location:** Endoplasmic reticulum **Tissue Specificity:** Lung, lymphocytes and placenta. **Similarity:** Belongs to the cytochrome P450 family. **Database links:** **Entrez Gene:** 1543 Human **Entrez Gene:** 1544 Human **Entrez Gene:** 13076 Mouse **Entrez Gene:** 13077 Mouse **Entrez Gene:** 24296 Rat **Entrez Gene:** 24297 Rat Omim: 108330 Human Omim: 124060 Human **SwissProt:** P04798 Human **SwissProt:** P05177 Human **SwissProt:** P00184 Mouse **SwissProt:** P00186 Mouse **SwissProt:** P00185 Rat **SwissProt:** P04799 Rat

[VALIDATION IMAGES]



Sample:
Lymph node (Mouse) Lysate at 40 ug
Primary: Anti- Cytochrome P450 1A1 + 1A2 (SL14174R) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 58 kD
Observed band size: 58 kD

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