

## Product datasheet for **TA346041**

### CYP1A1 Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB
Reactivity:	Human, Mouse
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	The immunogen for anti-CYP1A1 antibody: synthetic peptide directed towards the middle region of human CYP1A1. Synthetic peptide located within the following region: QLSDEKIINIVLDFGAGFDVTTAISWSLMYLVMNPRVQRKIQEELDTV
Formulation:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose. <i>Note that this product is shipped as lyophilized powder to China customers.</i>
Purification:	Affinity Purified
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	58 kDa
Gene Name:	cytochrome P450 family 1 subfamily A member 1
Database Link:	<a href="#">NP_000490</a> <a href="#">Entrez Gene 13076 Mouse</a> <a href="#">Entrez Gene 1543 Human</a> <a href="#">P04798</a>



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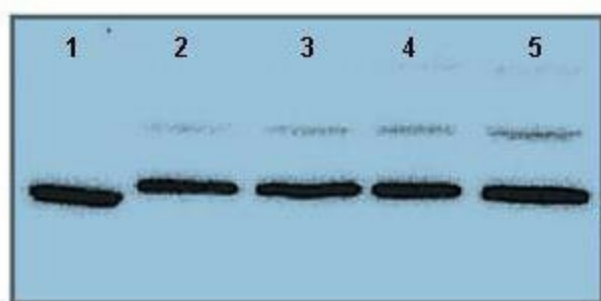
<b>Background:</b>	<p>CYP1A1 is a member of the cytochrome P450 superfamily of enzymes. The cytochrome P450 proteins are monooxygenases which catalyze many reactions involved in drug metabolism and synthesis of cholesterol, steroids and other lipids. This protein localizes to the endoplasmic reticulum 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. CYP1A1 has been associated with lung cancer risk. 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. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments. Publication Note: This RefSeq record includes a subset of the publications that are available for this gene. Please see the Entrez Gene record to access additional publications.</p>
<b>Synonyms:</b>	AHH; AHRR; CP11; CYP1; CYPIA1; P1-450; P450-C; P450DX
<b>Note:</b>	Immunogen Sequence Homology: Rat: 100%; Human: 100%; Mouse: 100%; Goat: 93%; Sheep: 93%; Bovine: 93%; Zebrafish: 92%; Pig: 86%; Horse: 86%; Rabbit: 86%; Guinea pig: 86%; Dog: 83%
<b>Protein Families:</b>	Druggable Genome, P450, Transmembrane
<b>Protein Pathways:</b>	Metabolism of xenobiotics by cytochrome P450, Retinol metabolism, Tryptophan metabolism

Product images:



CYP1A1

WB Suggested Anti-CYP1A1 Antibody Titration: 0.2-1 ug/ml; Positive Control: Human heart



Lanes: Lane 1: Human lung microsome lysate; Lane 2-5: 150 ug mouse lung microsome lysate; Primary Antibody Dilution: 1: 1000; Secondary Antibody: Anti-rabbit HRP; Secondary Antibody Dilution: 1: 10000; Gene Name: CYP1A1; Submitted by: Jing Peng, Fox Chase Cancer Center;