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anti-CYP1A1 antibody (AA 252-280)





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Alternative Name:

Overview	
Quantity:	400 μL
Target:	CYP1A1
Binding Specificity:	AA 252-280
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CYP1A1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunofluorescence (IF)
Product Details	
Immunogen:	This CYP1A1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 252-280 amino acids from the Central region of human CYP1A1.
Clone:	RB16935
Isotype:	lg Fraction
Purification:	This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Target Details	
Target:	CYP1A1

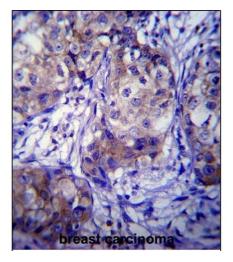
CYP1A1 (CYP1A1 Products)

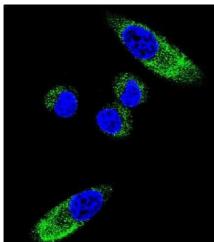
Target Details

Expiry Date:

6 months

Background:	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 gene has been associated with lung cancer risk.
Molecular Weight:	58165
Gene ID:	1543
NCBI Accession:	NP_000490
UniProt:	P04798
Pathways:	Steroid Hormone Biosynthesis, Regulation of Lipid Metabolism by PPARalpha
Application Details	
Application Notes:	IF: 1:10~50. WB: 1:1000. IHC-P: 1:10~50
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Maintain refrigerated at 2-8 °C for up to 6 months. For long term storage store at -20 °C in small aliquots to prevent freeze-thaw cycles.
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Immunohistochemistry (Paraffin-embedded Sections)

Image 1. CYP1A1 Antibody (Center) (ABIN392527 and ABIN2842082) immunohistochemistry analysis in formalin fixed and paraffin embedded human breast carcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of CYP1A1 Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.

Immunofluorescence

Image 2. Confocal immunofluorescent analysis of CYP1A1 Antibody (Center) (ABIN392527 and ABIN2842082) with MDA-M cell followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (green).DI was used to stain the cell nuclear (blue).

Western Blotting

Image 3. Western blot analysis of anti-CYP1A1 Antibody (Center) (ABIN392527 and ABIN2842082) in mouse lung tissue lysates (35 μ g/lane). CYP1A1 (arrow) was detected using the purified Pab.