

Datasheet for ABIN1882232  
**anti-CYP1A1 antibody (C-Term)**



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## Overview

Quantity:	400 µL
Target:	CYP1A1
Binding Specificity:	AA 377-405, C-Term
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CYP1A1 antibody is un-conjugated
Application:	Western Blotting (WB)

## Product Details

Immunogen:	This CYP1A1 antibody is generated from mice immunized with a KLH conjugated synthetic peptide between 377-405 amino acids from the C-terminal region of human CYP1A1.
Clone:	655CT6-1-2
Isotype:	IgG1
Predicted Reactivity:	Pr
Purification:	This antibody is purified through a protein G column, followed by dialysis against PBS.

## Target Details

Target:	CYP1A1
Alternative Name:	CYP1A1 ( <a href="#">CYP1A1 Products</a> )

## Target Details

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.
Molecular Weight:	58165
NCBI Accession:	<a href="#">NP_000490</a>
UniProt:	<a href="#">P04798</a>
Pathways:	<a href="#">Steroid Hormone Biosynthesis</a> , <a href="#">Regulation of Lipid Metabolism by PPARalpha</a>

## Application Details

Application Notes:	WB: 1:1000
Restrictions:	For Research Use only

## Handling

Format:	Liquid
Buffer:	Purified monoclonal 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
Expiry Date:	6 months

## Publications

Product cited in:	Licznarska, Szaefer, Wierzchowski, Sobierajska, Baer-Dubowska: "Resveratrol and its methoxy derivatives modulate the expression of estrogen metabolism enzymes in breast epithelial cells by AhR down-regulation." in: <b>Molecular and cellular biochemistry</b> , Vol. 425, Issue 1-2, pp. 169-179, (2017) ( <a href="#">PubMed</a> ).
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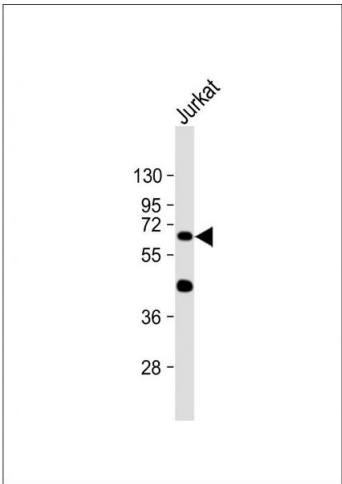
Pande, Amos, Eng, Frazier: "Interactions between cigarette smoking and selected polymorphisms in xenobiotic metabolizing enzymes in risk for colorectal cancer: A case-only analysis." in: **Molecular carcinogenesis**, Vol. 49, Issue 11, pp. 974-80, (2010) ([PubMed](#)).

Sabitha, Reddy, Jamil: "Smoking related risk involved in individuals carrying genetic variants of CYP1A1 gene in head and neck cancer." in: **Cancer epidemiology**, Vol. 34, Issue 5, pp. 587-92, (2010) ([PubMed](#)).

Kumar, Yadav, Singh, Goel, Ahmed, Gupta, Grover, Banerjee: "CYP 1A1 polymorphism and organochlorine pesticides levels in the etiology of prostate cancer." in: **Chemosphere**, Vol. 81, Issue 4, pp. 464-8, (2010) ([PubMed](#)).

Yamaguti, Lourenço, Silveira, Tone, Lopes, Lima: "Increased risk for acute lymphoblastic leukemia in children with cytochrome P450A1 (CYP1A1)- and NAD(P)H:quinone oxidoreductase 1 (NQO1)-inherited gene variants." in: **Acta haematologica**, Vol. 124, Issue 3, pp. 182-4, (2010) ([PubMed](#)).

Images



Western Blotting

**Image 1.** Anti- at 1:1000 dilution + Jurkat whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-mouse IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 58 kDa Blocking/Dilution buffer: 5 % NFDM/TBST.