

# CYP1A2 rabbit pAb

Cat No.:ES4921

For research use only

## Overview

Product Name	CYP1A2 rabbit pAb
Host species	Rabbit
Applications	IHC;IF;ELISA
Species Cross-Reactivity	Human;Mouse;Rat
Recommended dilutions	Immunohistochemistry: 1/100 - 1/300. ELISA: 1/10000. Not yet tested in other applications.
Immunogen	The antiserum was produced against synthesized peptide derived from human Cytochrome P450 1A2. AA range:331-380
Specificity	CYP1A2 Polyclonal Antibody detects endogenous levels of CYP1A2 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Storage	Store at -20°C. Avoid repeated freeze-thaw cycles.
Protein Name	Cytochrome P450 1A2
Gene Name	CYP1A2
Cellular localization	Endoplasmic reticulum membrane; Peripheral membrane protein. Microsome membrane ; Peripheral membrane protein.
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Clonality	Polyclonal
Concentration	1 mg/ml
Observed band	
Human Gene ID	1544
Human Swiss-Prot Number	P05177
Alternative Names	CYP1A2; Cytochrome P450 1A2; CYPIA2; Cytochrome P(3)450; Cytochrome P450 4; Cytochrome P450-P3
Background	This gene 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. The protein encoded by this gene 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. Other xenobiotic substrates for this enzyme include caffeine, aflatoxin B1, and acetaminophen. The transcript from this gene contains four Alu sequences flanked by direct repeats in the 3' untranslated region. [provided by RefSeq, Jul 2008],

Immunohistochemistry analysis of paraffin-embedded human breast carcinoma tissue, using Cytochrome P450 1A2 Antibody. The picture on the right is blocked with the synthesized peptide.

