

Product Name: KD-Validated CYP1A2 Mouse Monoclonal Antibody**Catalog #: KVA01202**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Mouse
Application	WB,FCM
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Mouse IgG3
Clonality	Mouse mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000
Molecular Weight	Calculated MW: 58.4kDa

Antigen Information

Gene Name	CYP1A2 CYP1A2; Cytochrome P450 Family 1 Subfamily A Member 2; P3-450; CP12; Cytochrome P450, Subfamily I (Aromatic Compound-Inducible), Polypeptide 2; Cytochrome P450, Family 1, Subfamily A, Polypeptide 2; Hydroperoxy Icosatetraenoate Dehydratase; Cholesterol 25-Hydroxylase; Cytochrome P450 1A2; Cytochrome P(3)450; Cytochrome P450-P3; Cytochrome P450 4; EC 1.14.14.1; CYP1A2; Flavoprotein-Linked Monooxygenase; Aryl Hydrocarbon Hydroxylase; Microsomal Monooxygenase; Xenobiotic Monooxygenase; Dioxin-Inducible P3-450; EC 4.2.1.152; P450 Form 4; P450(PA)
Alternative Names	
Gene ID	1544.0
SwissProt ID	P05177
Immunogen	A synthesized peptide derived from human Cytochrome P450 1A2

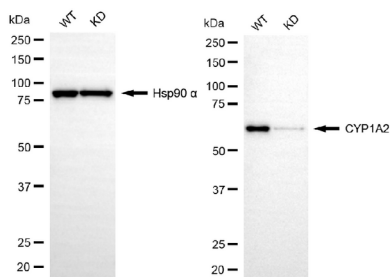
Background

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]

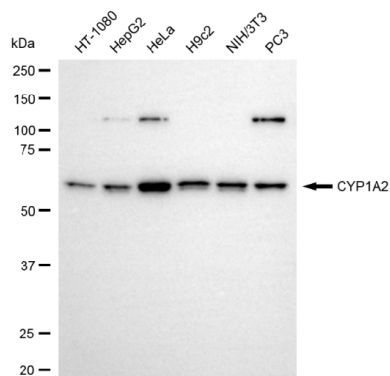
Research Area

Biochemicals

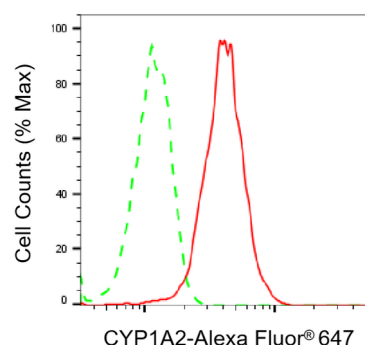
Image Data



Western blotting analysis using CYP1A2 antibody (KVA01202). CYP1A2 expression in wild-type (WT) and CYP1A2 knockdown (KD) 293T cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with CYP1A2 antibody (KVA01202, 1:5,000) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



Western blotting analysis using CYP1A2 antibody (KVA01202). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with CYP1A2 antibody (KVA01202, 1:5,000) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



Flow cytometric analysis of CYP1A2 expression in HAP-1 cells using CYP1A2 antibody (KVA01202, 1:2,000). Green, isotype control; red, CYP1A2.

