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Datasheet for ABIN6937070

anti-CYP1A1/2 antibody

Overview

Quantity:	100 µg
Target:	CYP1A1/2
Reactivity:	Rat
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CYP1A1/2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunohistochemistry (Formalin-fixed Sections) (IHC (f))

Product Details

Immunogen:	3-methylcholanthrene induced rat cytochrome P450 protein.
Clone:	MC1
Isotype:	IgG1 kappa
Specificity:	Cytochrome P450 oxidase (commonly abbreviated CYP) is a generic term for a large number of related, but distinct, oxidative enzymes important in vertebrate physiology. The cytochrome P450 mixed-function monooxygenase system is probably the most important element of Phase I metabolism in mammals. P450s are membrane-bound, either in the inner membrane of mitochondria or in the endoplasmic reticulum of cells where they metabolise thousands of endogenous and exogenous compounds. In the liver, these substrates include toxins, drugs, and other unneeded and potentially harmful molecules. Humans have 18 families of cytochrome P450 genes and 43 subfamilies, the CYP1 family is involved in drug metabolism and includes 3 subfamilies, 3 genes and 1 pseudogene.

Product Details

Cross-Reactivity (Details):	Human. Mouse. Rat. Primate.
Purification:	1.0mg/ml of Ab purified from Bioreactor by Protein A/G.

Target Details

Target:	CYP1A1/2
Alternative Name:	CYP1A1 / CYP1A2 (CYP1A1/2 Products)
Background:	Aryl hydrocarbon hydroxylase, CP11, CP12, CYP1A1, CYP1A2, CYP1A1, CYP1A2, Cytochrome P450 family 1 subfamily A polypeptide 1, Cytochrome P450 family 1 subfamily A polypeptide 2, P1 450, P3 450, P450 form 4, P450 form 6, P450 P1, P450 P3, Cytochrome P450 1A1/1A2 Cellular localisation: Cytoplasmic
Molecular Weight:	58kDa
Gene ID:	1543, 1544, 437060
UniProt:	P04798 , P05177

Application Details

Application Notes:	Known_Application: Immunofluorescence (1-2 µg/mL), Western Blot (1-2 µg/mL), Immunohistochemistry (Formalin-fixed) (0.25-0.5 µg/mL for 30 minutes at RT)(Staining of formalin-fixed tissues requires heating tissue sections in 10 mM Tris with 1 mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes), Optimal dilution for a specific application should be determined. Positive_Control: HeLa cells. Liver or Cardiac muscle.
Restrictions:	For Research Use only

Handling

Concentration:	1.0 mg/mL
Buffer:	Prepared in 10 mM PBS, WITHOUT BSA and Azide.
Preservative:	Azide free
Storage:	-20 °C,-80 °C
Storage Comment:	Antibody without azide store at -20 to -80 °C. Antibody is stable for 24 months. Non-hazardous.
Expiry Date:	24 months