

Mouse Cytochrome P450 3A1/CYP3A1 Monoclonal Antibody | anti-CYP3A1 antibody

Cytochrome P450 3A1/CYP3A1

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA215327	Mouse	Human, Mouse, Rat, Pig	Western Blot, Flow Cytometry, Functional Assay, ELISA

PRODUCT SYNONYMS

Cytochrome P450 3A1/CYP3A1; Monoclonal Antibody; CYP3A1; Cytochrome P450 family 3 subfamily A polypeptide 1; anti-CYP3A1 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human, Mouse, Rat, Pig
Clonality	Monoclonal
Isotype	IgG1, kappa
Clone Number	P6
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. The CYP2 family are part of the microsomal drug metabolising system that is responsible for oxidation of many therapeutic agents as well as steroids, fatty acids and many other endogenous substances. Cytochrome P450 3A4 is abundantly expressed in liver and small intestine and is inducible by barbiturates, glucocorticoids and rifampicin. P6 is highly specific for members of the CYP 3A gene family and cross reacts with CY 3A4 in human, CYP 3A in rat and potentially CYP 3A11 (based on inducibility) in mice.
Purity/Purification	Purified Ab with BSA and Azide at 200ug/ml OR Purified Ab WITHOUT BSA and Azide at 1.0mg/ml
Form/Format	200ug/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Sequence Length	502
Applicable Applications for anti-CYP3A1 antibody	WB (Western Blot), FCM/FACS (Flow Cytometry), ELISA
Positive Control	HeLa cells. Liver or Cardiac muscle.
Immunogen	Full length protein (Rat). Rat liver cytochrome P450 3A1.
Cellular Localization	Endoplasmic reticulum, membrane bound.
Hu-chromosome Location	7q22.1
Preparation and Storage	Antibody with azide: Store at 2 to 8°C. Antibody without azide: store at -20 to -80°C. Non-hazardous. No MSDS required.

IMAGES



SDS-PAGE
SDS-PAGE Analysis Purified Cytochrome P450 1A1/1A2 Mouse Monoclonal Antibody (P6).
Confirmation of Purity and Integrity of Antibody.

ADDITIONAL INFORMATION

References	Probert et al. 2014. Toxicol Sci. 137(2):350-70. PMID: 24235770.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	148540156
NCBI GeneID	25642
NCBI GenBank Nucleotide #	NP_037237.2
Molecular Weight	51kDa
NCBI Official Full Name	cytochrome P450 3A1
NCBI Official Synonym Full Names	cytochrome P450, family 3, subfamily a, polypeptide 23/polypeptide 1
NCBI Official Symbol	Cyp3a23/3a1
NCBI Official Synonym Symbols	CYP; RL33; cDEX; Cyp3a1; Cyp3a3; CYP3A23
NCBI Protein Information	cytochrome P450 3A1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/monoclonal/cytochrome-p450-3a1-cyp3a1-antibody-clone-p6-western-blot-flow-cytometry-elisa/215327>