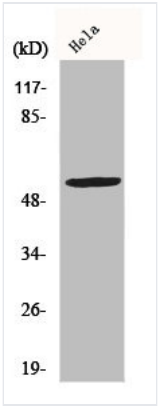
CYP2A13 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CYP2A13, Polyclonal Antibody
Full Product Name	CYP2A13 Antibody
Product Gene Name	anti-CYP2A13 antibody
Product Synonym Names	CYP2A13; Cytochrome P450 2A13; CYPIIA13
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid; In Phosphate Buffered Saline, 50% Glycerol, 0.5% BSA and 0.02% Sodium Azide.
Purity/Purification	Affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Preparation and Storage	Upon receipt, store at -20 degree C or -80 degree C. Avoid repeated freeze.
Molecular Weight	56,688 Da
Chromosome Location	Chromosome: 19; NC_000019.9 (41594356..41602100). Location: 19q13.2
OMIM	608055
3D Structure	ModBase 3D Structure for Q16696
Immunogen	Synthesized peptide derived from the Internal region of human CYP2A13.
Immunogen Species	Human
Conjugate	Non-conjugated
Product Categories/Family for anti-CYP2A13 antibody	Cardiovascular
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-CYP2A13 antibody	Western Blot (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), ELISA (EIA)
Application Notes for anti-CYP2A13 antibody	WB: 1:500-1:2000 IHC: 1:100-1:300 IF: 1:200-1:1000 ELISA: 1:20000
Related Product Information for anti-CYP2A13 antibody	MBS7116195 is an antibody targeting CYP2A13. Also known as CYP2A13 Antibody. Reactive in Human. Host: Rabbit.
Other Notes	Small volumes of anti-CYP2A13 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Western Blot (WB) of anti-CYP2A13 antibody
Western Blot analysis of A549 cells using CYP2A13 Polyclonal Antibody

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CYP2A13. It may not necessarily be applicable to this product.

NCBI GI #	13699809
NCBI GeneID	1553
NCBI Accession #	NP_000757.2
UniProt Primary Accession #	Q16696
UniProt Secondary Accession #	Q53YR8; Q6R569; Q6R570; Q9H2X2
UniProt Related Accession #	Q16696
GenBank Nucleotide #	NM_000766.4
NCBI Official Full Name	cytochrome P450 2A13
NCBI Official Synonym Full Names	cytochrome P450, family 2, subfamily A, polypeptide 13
NCBI Official Symbol	CYP2A13
NCBI Official Synonym Symbols	CPAD; CYP2A; CYPIIA13
UniProt Protein Name	Cytochrome P450 2A13
UniProt Synonym Protein Names	CYPIIA13
Protein Family	Cytochrome
UniProt Gene Name	CYP2A13
UniProt Entry Name	CP2AD_HUMAN
NCBI Protein Information	cytochrome P450 2A13; cytochrome P450, subfamily IIA (phenobarbital-inducible), polypeptide 13
NCBI Summary for CYP2A13	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. This protein localizes to the endoplasmic reticulum. Although its endogenous substrate has not been determined, it is known to metabolize 4-(methylnitrosamino)-1-(3-pyridyl)-1-butanone, a major nitrosamine specific to tobacco. This gene is part of a large cluster of cytochrome P450 genes from the CYP2A, CYP2B and CYP2F subfamilies on chromosome 19q. [provided by RefSeq, Jul 2008]

UniProt Comments for CYP2A13	CYP2A5: Exhibits a coumarin 7-hydroxylase activity. Active in the metabolic activation of hexamethylphosphoramide, N,N- dimethylaniline, 2'-methoxyacetophenone, N- nitrosomethylphenylamine, and the tobacco-specific carcinogen, 4- (methylnitrosamino)-1-(3-pyridyl)-1-butanone. Possesses phenacetin O-deethylation activity. Belongs to the cytochrome P450 family. Protein type: Xenobiotic Metabolism - drug metabolism - other enzymes; Xenobiotic Metabolism - drug metabolism - cytochrome P450; EC 1.14.14.1; Oxidoreductase; Cofactor and Vitamin Metabolism - retinol; Secondary Metabolites Metabolism - caffeine Chromosomal Location of Human Ortholog: 19q13.2 Cellular Component: endoplasmic reticulum membrane; intracellular membrane-bound organelle; cytoplasm Molecular Function: iron ion binding; oxidoreductase activity, acting on paired donors, with incorporation or reduction of molecular oxygen, reduced flavin or flavoprotein as one donor, and incorporation of one atom of oxygen; heme binding; arachidonic acid epoxygenase activity; steroid hydroxylase activity; oxygen binding Biological Process: coumarin metabolic process; xenobiotic metabolic process; exogenous drug catabolic process; epoxygenase P450 pathway
Research Articles on CYP2A13	**1.** The differential distribution pattern of CYP2A13 in the respiratory tract, which is of importance in considering the pulmonary susceptibility to carcinogens and the following lung cancer development, is detailed.
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