CYP1A1 Antibody (Center) Blocking Peptide

PRODUCT OVERVIEW

Product Name	CYP1A1, Blocking Peptide
Full Product Name	CYP1A1 Antibody (Center) Blocking peptide
Product Gene Name	CYP1A1 blocking peptide
Product Synonym Names	Cytochrome P450 1A1; CYPIA1; Cytochrome P450 form 6; Cytochrome P450-C; Cytochrome P450-P1; CYP1A1
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 1 mg/ml.
Specificity	The synthetic peptide sequence used to generate the antibody was selected from the C-term region of human CYP1A1. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	CYP1A1 peptide (MBS9227438) is used for blocking the activity of CYP1A1 antibody (MBS9207855)
Molecular Weight	18,441 Da
OMIM	108330
Cellular Location	Endoplasmic reticulum membrane; Peripheral membrane protein. Microsome membrane; Peripheral membrane protein
Tissue Location	Lung, lymphocytes and placenta.
Related Product Information for CYP1A1 blocking peptide	Cytochromes P450 are a group of heme-thiolate monooxygenases. In liver microsomes, this enzyme is involved in an NADPH-dependent electron transport pathway. It oxidizes a variety of structurally unrelated compounds, including steroids, fatty acids, and xenobiotics.
Other Notes	Small volumes of CYP1A1 blocking peptide 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.
Searchable Terms for CYP1A1 purchase	MBS9227438 is a blocking peptide targeting CYP1A1. Also known as CYP1A1 Antibody (Center) Blocking peptide.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CYP1A1. It may not necessarily be applicable to this product.

NCBI GI #	117139
NCBI GeneID	1543
NCBI Accession #	P04798.1
UniProt Primary Accession #	P04798
UniProt Secondary Accession #	Q53G18; A4F3V9; A4F3W0
UniProt Related Accession #	P04798
NCBI Official Full Name	Cytochrome P450 1A1
NCBI Official Synonym Full Names	cytochrome P450 family 1 subfamily A member 1
NCBI Official Symbol	CYP1A1

NCBI Official Synonym Symbols	AHH; AHRR; CP11; CYP1; CYPIA1; P1-450; P450-C; P450DX
UniProt Protein Name	Cytochrome P450 1A1
UniProt Synonym Protein Names	CYPIA1; Cytochrome P450 form 6; Cytochrome P450-C; Cytochrome P450-P1
Protein Family	Cytochrome
UniProt Gene Name	CYP1A1
UniProt Entry Name	CP1A1_HUMAN
NCBI Protein Information	cytochrome P450 1A1
NCBI Summary for CYP1A1	This gene, CYP1A1, 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 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. The gene has been associated with lung cancer risk. A related family member, CYP1A2, is located approximately 25 kb away from CYP1A1 on chromosome 15. Alternative splicing results in multiple transcript variants encoding distinct isoforms. [provided by RefSeq, Jan 2016]
UniProt Comments for CYP1A1	CYP1A1: Cytochromes P450 are a group of heme-thiolate monooxygenases. In liver microsomes, this enzyme is involved in an NADPH-dependent electron transport pathway. It oxidizes a variety of structurally unrelated compounds, including steroids, fatty acids, and xenobiotics. Belongs to the cytochrome P450 family. Protein type: EC 1.14.14.1; Xenobiotic Metabolism - metabolism by cytochrome P450; Cofactor and Vitamin Metabolism - retinol; Oxidoreductase; Amino Acid Metabolism - tryptophan Chromosomal Location of Human Ortholog: 15q24.1 Cellular Component: endoplasmic reticulum membrane; intracellular membrane-bound organelle Molecular Function: monooxygenase activity; oxidoreductase activity; oxygen binding; protein binding Biological Process: drug metabolic process; epoxygenase P450 pathway; ethylene metabolic process; vitamin D metabolic process
Research Articles on CYP1A1	**1.** the association between CYP1A1 polymorphisms and chronic obstructive pulmonary disease risk, is reported.
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