

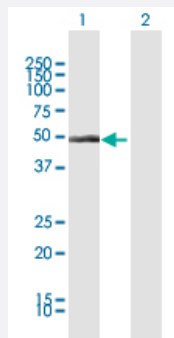
MaxPab®

CYP1A1 MaxPab rabbit polyclonal antibody (D01)

Catalog # H00001543-D01

Size 100 uL

Applications

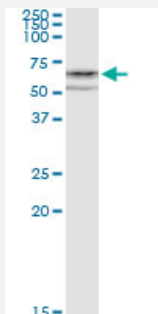


Western Blot (Transfected lysate)

Western Blot analysis of CYP1A1 expression in transfected 293T cell line ([H00001543-T02](#)) by CYP1A1 MaxPab polyclonal antibody.

Lane 1: CYP1A1 transfected lysate(58.20 KDa).

Lane 2: Non-transfected lysate.



Immunoprecipitation

Immunoprecipitation of CYP1A1 transfected lysate using anti-CYP1A1 MaxPab rabbit polyclonal antibody and Protein A Magnetic Bead, and immunoblotted with CYP1A1 purified MaxPab mouse polyclonal antibody (B01P) ([H00001543-B01P](#)).

Specification

Product Description

Rabbit polyclonal antibody raised against a full-length human CYP1A1 protein.

Immunogen

CYP1A1 (NP_000490.1, 1 a.a. ~ 512 a.a) full-length human protein.

Sequence

MLFPISMSATEFLLASVIFCLVFWVIRASRPQVPKGLKNPPGPWGWPLIGHMLTLGKNPHLALSR
MSQQYGDVQLQIRIGSTPVVVL SGLDTIRQALVRQGDDFKGRPDLYTFTLISNGQSMSFSPDSGPV
WAARRRLAQNGLKSFASIADPASSTSCYLEEHVSKEAEVLISLTLQELMAGPGHFNPYRYVVSVT
NVICAICFGRRYDHNHQELLSLVNLNNNFGEVVGSGNPADFIPLRYLPNPSLNAFKDLNEKFYSFM
QKMVKEHYKTFEKGHIRDITDSLIEHCQEKLQDENANVQLSDEKINVLDFGAGFDTVTTAISWSL
MYLVMNPRVQRKIQEELDTVIGRSRRPRLSDRSHLPYMEAFILETFRHSSFVPFTIPHSTTRDTSK
GFYIPKGRCVFVNQWQINHDQKLWVNPSEFLPERFLTPDGAIDKVLSEKVIIFGMGKRKCIGETIAR
WEVFLFLAILLQRVEFSVPLGVKVDMPYGLTMKHACCEHFQMQLRS

Host	Rabbit
Reactivity	Human
Interspecies Antigen Sequence	Mouse (80)
Quality Control Testing	Antibody reactive against mammalian transfected lysate.
Storage Buffer	No additive
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

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Lane 2: Non-transfected lysate.

[Protocol Download](#)

- Immunoprecipitation

Immunoprecipitation of CYP1A1 transfected lysate using anti-CYP1A1 MaxPab rabbit polyclonal antibody and Protein A Magnetic Bead, and immunoblotted with CYP1A1 purified MaxPab mouse polyclonal antibody (B01P) ([H00001543-B01P](#)).

[Protocol Download](#)

Gene Info — CYP1A1

Entrez GeneID	1543
GeneBank Accession#	NM_000499.2
Protein Accession#	NP_000490.1
Gene Name	CYP1A1
Gene Alias	AHH, AHRR, CP11, CYP1, P1-450, P450-C, P450DX
Gene Description	cytochrome P450, family 1, subfamily A, polypeptide 1
Omim ID	108330

Gene Ontology

[Hyperlink](#)

Gene Summary

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. [provided by RefSeq]

Other Designations

aryl hydrocarbon hydroxylase|cytochrome P1-450, dioxin-inducible|cytochrome P450 1A1|cytochrome P450, subfamily I (aromatic compound-inducible), polypeptide 1|flavoprotein-linked monooxygenase|xenobiotic monooxygenase

Pathway

- [Metabolism of xenobiotics by cytochrome P450](#)
- [Retinol metabolism](#)
- [Tryptophan metabolism](#)

Disease

- [Abortion](#)
- [Acute Disease](#)
- [Adenocarcinoma](#)
- [Adenoma](#)
- [Alcoholism](#)
- [Alcohol-Related Disorders](#)
- [Alzheimer disease](#)
- [Amyotrophic lateral sclerosis](#)
- [Anemia](#)
- [Arteriosclerosis](#)
- [Arthritis](#)

- [Asperger Syndrome](#)
- [Asthma](#)
- [Atherosclerosis](#)
- [Autistic Disorder](#)
- [Behcet Syndrome](#)
- [Birth Weight](#)
- [Bone Diseases](#)
- [Bone Resorption](#)
- [Brain Neoplasms](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Bronchitis](#)
- [Calcinosis](#)
- [Carcinoma](#)
- [Cardiovascular Diseases](#)
- [Cell Transformation](#)
- [Central Nervous System Diseases](#)
- [Cerebral Infarction](#)
- [Cerebrovascular Accident](#)
- [Cervical Intraepithelial Neoplasia](#)
- [Cholestasis](#)
- [Chorioamnionitis](#)
- [Chromosome Aberrations](#)
- [Chronic Disease](#)
- [Cleft Lip](#)
- [Cleft Palate](#)

- [Cocarcinogenesis](#)
- [Cognition](#)
- [Colon cancer](#)
- [Colonic Neoplasms](#)
- [Colonic Polyps](#)
- [Colorectal Neoplasms](#)
- [Congenital Abnormalities](#)
- [Connective Tissue Diseases](#)
- [Coronary Artery Disease](#)
- [Coronary Disease](#)
- [Crohn Disease](#)
- [Cryptorchidism](#)
- [Cystadenocarcinoma](#)
- [Diabetes Mellitus](#)
- [Disease Progression](#)
- [Disease Susceptibility](#)
- [DNA Damage](#)
- [Ductus Arteriosus](#)
- [Dysmenorrhea](#)
- [Echinococcosis](#)
- [Edema](#)
- [Endometrial Hyperplasia](#)
- [Endometrial Neoplasms](#)
- [Endometriosis](#)
- [Environmental Illness](#)
- [Esophageal Neoplasms](#)

- [Eye Diseases](#)
- [Fetal Diseases](#)
- [Fetal Growth Retardation](#)
- [Fibroadenoma](#)
- [Focal Nodular Hyperplasia](#)
- [Gallbladder Neoplasms](#)
- [Gaucher disease](#)
- [Genetic Predisposition to Disease](#)
- [Genital Diseases](#)
- [Genomic Instability](#)
- [Glioma](#)
- [Graves Disease](#)
- [Head and Neck Neoplasms](#)
- [Hepatitis](#)
- [Hepatitis B](#)
- [Hepatitis C](#)
- [Hidradenitis Suppurativa](#)
- [HIV Infections](#)
- [Hodgkin Disease](#)
- [Hot Flashes](#)
- [Hypercholesterolemia](#)
- [Hypersensitivity](#)
- [Hypertension](#)
- [Hypopharyngeal Neoplasms](#)
- [Hypospadias](#)
- [Infant](#)

- [Infection](#)
- [Infertility](#)
- [Inflammation](#)
- [Kidney Failure](#)
- [Kidney Neoplasms](#)
- [Laryngeal Neoplasms](#)
- [Leiomyoma](#)
- [Leiomyomatosis](#)
- [Leukemia](#)
- [Leukemia-Lymphoma](#)
- [Leukoplakia](#)
- [Liver Cirrhosis](#)
- [Liver Diseases](#)
- [Liver Neoplasms](#)
- [Lung carcinoma](#)
- [Lung Neoplasms](#)
- [Lupus Erythematosus](#)
- [Lymphoma](#)
- [Macular Degeneration](#)
- [Malignant melanoma](#)
- [Manganese Poisoning](#)
- [Melanoma](#)
- [Meningioma](#)
- [Mental Disorders](#)
- [Mesothelioma](#)
- [Microsatellite Instability](#)

- [Mouth Abnormalities](#)
- [Mouth Neoplasms](#)
- [Multiple Myeloma](#)
- [Musculoskeletal Diseases](#)
- [Myelodysplastic Syndromes](#)
- [Nasopharyngeal Neoplasms](#)
- [Neoplasm Invasiveness](#)
- [Neoplasm Metastasis](#)
- [Neoplasm Recurrence](#)
- [Neoplasms](#)
- [Neuroma](#)
- [Neuropsychological Tests](#)
- [Neurotoxicity Syndromes](#)
- [Obesity](#)
- [Obstetric Labor](#)
- [Occupational Diseases](#)
- [Oligospermia](#)
- [Oropharyngeal Neoplasms](#)
- [Osteoporosis](#)
- [Otorhinolaryngologic Neoplasms](#)
- [Ovarian cancer](#)
- [Ovarian Failure](#)
- [Ovarian Neoplasms](#)
- [Pancreatic cancer](#)
- [Pancreatic Neoplasms](#)
- [Pancreatitis](#)

- [Papillomavirus Infections](#)
- [Parkinson disease](#)
- [Periodontitis](#)
- [Peripheral Nervous System Diseases](#)
- [Pharyngeal Neoplasms](#)
- [Pleural Neoplasms](#)
- [Pneumonia](#)
- [Polycystic Ovary Syndrome](#)
- [Precancerous Conditions](#)
- [Pre-Eclampsia](#)
- [Pregnancy Complications](#)
- [Premature Birth](#)
- [Prenatal Exposure Delayed Effects](#)
- [Prostate cancer](#)
- [Prostatic Hyperplasia](#)
- [Prostatic Neoplasms](#)
- [Psoriasis](#)
- [Puberty](#)
- [Pulmonary Disease](#)
- [Pulmonary Emphysema](#)
- [Rectal Neoplasms](#)
- [Recurrence](#)
- [Respiratory Tract Diseases](#)
- [Rhinitis](#)
- [Roseolovirus Infections](#)
- [Seminoma](#)

- [Skin Diseases](#)
- [Skin Neoplasms](#)
- [Social Perception](#)
- [Spondylitis](#)
- [Stomach Neoplasms](#)
- [Sudden Infant Death](#)
- [Testicular Neoplasms](#)
- [Thrombophilia](#)
- [Thyroid Neoplasms](#)
- [Tobacco Use Disorder](#)
- [Tuberculosis](#)
- [Urinary Bladder Neoplasms](#)
- [Uterine Cervical Neoplasms](#)
- [Uterine Neoplasms](#)
- [Werner syndrome](#)