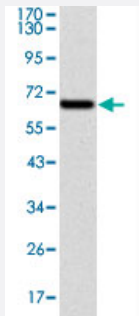


CYP1A1 monoclonal antibody, clone 6G5

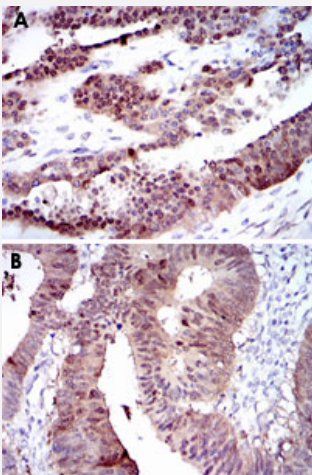
Catalog # MAB10576 Size 100 ug

Applications



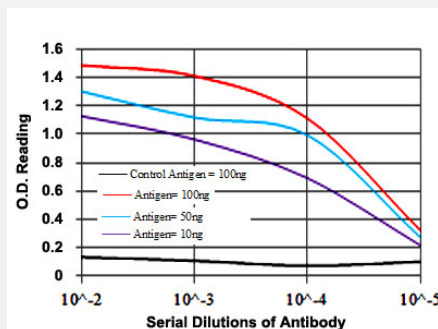
Western Blot (Recombinant protein)

Western blot analysis using CYP1A1 monoclonal antibody, clone 6G5 (Cat # MAB10576) against human CYP1A1 (aa : 203-461) recombinant protein. (Expected MW is 60 kDa)



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical analysis of paraffin-embedded human ovarian cancer (A) and human rectum cancer (B) tissues using CYP1A1 monoclonal antibody, clone 6G5 (Cat # MAB10576) with DAB staining.



Enzyme-linked Immunoabsorbent Assay

ELISA detection with CYP1A1 monoclonal antibody, clone 6G5 (Cat # MAB10576).

Specification

Product Description	Mouse monoclonal antibody raised against partial recombinant CYP1A1.
Immunogen	Recombinant protein corresponding to human CYP1A1.
Host	Mouse
Reactivity	Human
Form	Liquid
Isotype	IgG1
Recommend Usage	ELISA (1:10000) Western Blot (1:500-1:2000) Immunohistochemistry (1:200-1:1000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.05% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Recombinant protein)

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- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical analysis of paraffin-embedded human ovarian cancer (A) and human rectum cancer (B) tissues using CYP1A1 monoclonal antibody, clone 6G5 (Cat # MAB10576) with DAB staining.

- Enzyme-linked Immunoabsorbent Assay

ELISA detection with CYP1A1 monoclonal antibody, clone 6G5 (Cat # MAB10576).

Gene Info — CYP1A1

Entrez GeneID [1543](#)

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](#)