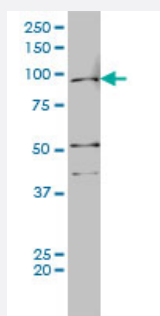


AR monoclonal antibody (M01), clone 1G3

Catalog # H00000367-M01

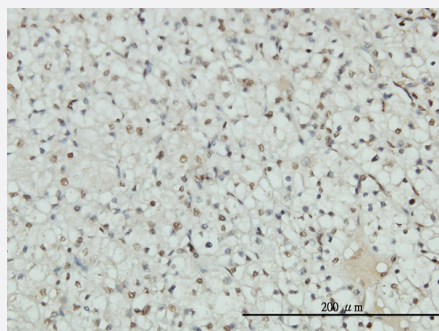
Size 100 ug

Applications



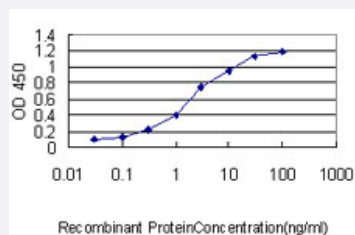
Western Blot (Cell lysate)

AR monoclonal antibody (M01), clone 1G3 Western Blot analysis of AR expression in HeLa S3 NE (Cat # L013V3).



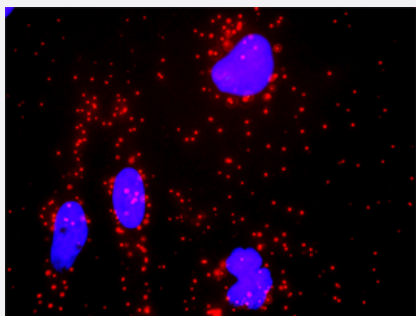
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunoperoxidase of monoclonal antibody to AR on formalin-fixed paraffin-embedded human renal cell carcinoma tissue. [antibody concentration 3 ug/ml]



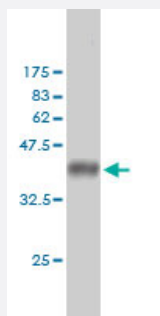
Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged AR is approximately 0.1ng/ml as a capture antibody.



In situ Proximity Ligation Assay (Cell)

Proximity Ligation Analysis of protein-protein interactions between KLK3 and AR. HeLa cells were stained with anti-KLK3 rabbit purified polyclonal 1:1200 and anti-AR mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex, and nuclei were counterstained with DAPI (blue).



Western Blot detection against Immunogen (36.74 KDa) .

Specification

Product Description	Mouse monoclonal antibody raised against a partial recombinant AR.
Immunogen	AR (NP_000035, 221 a.a. ~ 320 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	SKDNYLGGTSTISDNAKELCKAVSVSMGLGVEALEHLSPGEQLRGDCMYAPLLGVPPAVRPTPC APLAECKGSLDDDSAGKSTEDTAEYSPFKGGYTKGL
Host	Mouse
Reactivity	Human
Isotype	IgG1 kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (36.74 KDa) .
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Cell lysate)

AR monoclonal antibody (M01), clone 1G3 Western Blot analysis of AR expression in Hela S3 NE (Cat # L013V3).

[Protocol Download](#)

- Western Blot (Recombinant protein)

[Protocol Download](#)

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

Immunoperoxidase of monoclonal antibody to AR on formalin-fixed paraffin-embedded human renal cell carcinoma tissue.
[antibody concentration 3 ug/ml]

[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged AR is approximately 0.1ng/ml as a capture antibody.

[Protocol Download](#)

- ELISA

- In situ* Proximity Ligation Assay (Cell)

Proximity Ligation Analysis of protein-protein interactions between KLK3 and AR. HeLa cells were stained with anti-KLK3 rabbit purified polyclonal 1:1200 and anti-AR mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex, and nuclei were counterstained with DAPI (blue).

Gene Info — AR

Entrez GeneID [367](#)

GeneBank Accession# [NM_000044](#)

Protein Accession# [NP_000035](#)

Gene Name AR

Gene Alias AIS, DHTR, HUMARA, KD, NR3C4, SBMA, SMAX1, TFM

Gene Description androgen receptor

Omim ID [176807](#) [300068](#) [300633](#) [313200](#) [313700](#)

Gene Ontology [Hyperlink](#)

Gene Summary

The androgen receptor gene is more than 90 kb long and codes for a protein that has 3 major functional domains: the N-terminal domain, DNA-binding domain, and androgen-binding domain. The protein functions as a steroid-hormone activated transcription factor. Upon binding the hormone ligand, the receptor dissociates from accessory proteins, translocates into the nucleus, dimerizes, and then stimulates transcription of androgen responsive genes. This gene contains 2 polymorphic trinucleotide repeat segments that encode polyglutamine and polyglycine tracts in the N-terminal transactivation domain of its protein. Expansion of the polyglutamine tract causes spinal bulbar muscular atrophy (Kennedy disease). Mutations in this gene are also associated with complete androgen insensitivity (CAIS). Two alternatively spliced variants encoding distinct isoforms have been described. [provided by RefSeq]

Other Designations

OTTHUMP00000023450|OTTHUMP00000061928|dihydrotestosterone receptor

Publication Reference

- [Functional organotypic cultures of prostate tissues: a relevant preclinical model that preserves hypoxia sensitivity and calcium signaling.](#)

Figiel S, Pasqualin C, Bery F, Maupoil V, Vandier C, Potier-Cartereau M, Domingo I, Guibon R, Bruyere F, Maheo K, Fromont G.

The American Journal of Pathology 2019 Jun; 189(6):1268.

Application: IHC-P, Human, Human prostate cancer

Pathway

- [Pathways in cancer](#)
- [Prostate cancer](#)

Disease

- [Abortion](#)
- [Acne Vulgaris](#)
- [Adenocarcinoma](#)
- [Adrenal Hyperplasia](#)
- [Alcoholism](#)
- [Alopecia](#)
- [Alzheimer disease](#)

- [Androgen-Insensitivity Syndrome](#)
- [Angina Pectoris](#)
- [Antisocial Personality Disorder](#)
- [Arteriosclerosis](#)
- [Arthritis](#)
- [Asperger Syndrome](#)
- [Atherosclerosis](#)
- [Attention Deficit Disorder with Hyperactivity](#)
- [Autistic Disorder](#)
- [Azoospermia](#)
- [Biliary Tract Neoplasms](#)
- [Bipolar Disorder](#)
- [Birth Weight](#)
- [Bone Neoplasms](#)
- [Brain Ischemia](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Cadaver](#)
- [Carcinoma](#)
- [Cardiomyopathy](#)
- [Cardiovascular Diseases](#)
- [Chromosome Aberrations](#)
- [Cognition](#)
- [Cognition Disorders](#)
- [Colon cancer](#)
- [Colonic Neoplasms](#)

- [Colorectal Neoplasms](#)
- [Coronary Disease](#)
- [Cryptorchidism](#)
- [Depressive Disorder](#)
- [Diabetes Complications](#)
- [Diabetes Mellitus](#)
- [Diabetic Nephropathies](#)
- [Diabetic Retinopathy](#)
- [Disease Progression](#)
- [Dyslipidemias](#)
- [Edema](#)
- [Endometrial Neoplasms](#)
- [Endometriosis](#)
- [Epilepsy](#)
- [Esophageal Neoplasms](#)
- [Fibroadenoma](#)
- [Fractures](#)
- [Fragile X syndrome](#)
- [Friedreich Ataxia](#)
- [Functional Laterality](#)
- [Gallstones](#)
- [Gender Identity](#)
- [Genetic Predisposition to Disease](#)
- [Germinoma](#)
- [Gonadal Dysgenesis](#)
- [Gynecomastia](#)

- [Head and Neck Neoplasms](#)
- [Heart Diseases](#)
- [Hepatitis B](#)
- [Hepatitis C](#)
- [Hip Fractures](#)
- [Hirsutism](#)
- [Hyperandrogenism](#)
- [Hyperplasia](#)
- [Hypertension](#)
- [Hypertrophy](#)
- [Hypogonadism](#)
- [Hypospadias](#)
- [Infertility](#)
- [Inflammation](#)
- [Insulin Resistance](#)
- [Klinefelter Syndrome](#)
- [Leiomyoma](#)
- [Libido](#)
- [Liver Neoplasms](#)
- [Lung Neoplasms](#)
- [Lymphoma](#)
- [Lymphopenia](#)
- [Machado-Joseph Disease](#)
- [Male pattern baldness](#)
- [Memory](#)
- [Mental Disorders](#)

- [Metabolic Syndrome X](#)
- [Microsatellite Instability](#)
- [Migraine Disorders](#)
- [Mood Disorders](#)
- [Muscular Atrophy](#)
- [Muscular Disorders](#)
- [Myocardial Infarction](#)
- [Myoclonic Epilepsies](#)
- [Myotonic dystrophy](#)
- [NARP](#)
- [Neoplasm Invasiveness](#)
- [Neoplasm Metastasis](#)
- [Neoplasm Recurrence](#)
- [Neoplasms](#)
- [Neovascularization](#)
- [Neuropsychological Tests](#)
- [Obesity](#)
- [Oligospermia](#)
- [Osteoarthritis](#)
- [Osteoporosis](#)
- [Ovarian cancer](#)
- [Ovarian Diseases](#)
- [Ovarian Failure](#)
- [Ovarian Neoplasms](#)
- [Personality Assessment](#)

- [Personality Tests](#)
- [Phobic Disorders](#)
- [Polycystic Ovary Syndrome](#)
- [Precancerous Conditions](#)
- [Pre-Eclampsia](#)
- [Prenatal Exposure Delayed Effects](#)
- [Prostate cancer](#)
- [Prostatic Diseases](#)
- [Prostatic Hyperplasia](#)
- [Prostatic Neoplasms](#)
- [Psychiatric Status Rating Scales](#)
- [Psychological Tests](#)
- [Psychophysiologic Disorders](#)
- [Psychosexual Development](#)
- [Puberty](#)
- [Rectal Neoplasms](#)
- [Recurrence](#)
- [Schizophrenia](#)
- [Seminoma](#)
- [Severe combined immunodeficiency](#)
- [Sex Chromosome Aberrations](#)
- [Sex determination](#)
- [Sexual Dysfunction](#)
- [Sexual Dysfunctions](#)
- [Social Perception](#)
- [Spinal Diseases](#)

- [Spinal Fractures](#)
- [Spinal muscular atrophy](#)
- [Spinocerebellar ataxia](#)
- [Spinocerebellar Ataxias](#)
- [Stroke](#)
- [Substance Withdrawal Syndrome](#)
- [Substance-Related Disorders](#)
- [Task Performance and Analysis](#)
- [Testicular Neoplasms](#)
- [Thinness](#)
- [Thrombophilia](#)
- [Tobacco Use Disorder](#)
- [Ureteral Neoplasms](#)
- [Urinary Bladder Neoplasms](#)
- [Urinary Calculi](#)
- [Uterine Neoplasms](#)
- [Virilism](#)
- [Weight Gain](#)
- [Weight Loss](#)