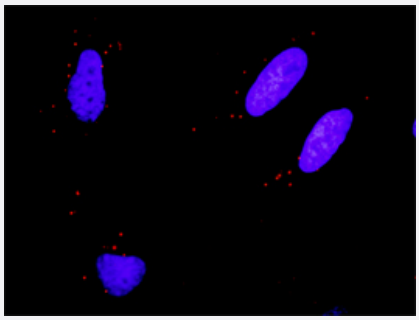
# CDK6 & AR Protein Protein Interaction Antibody Pair

Catalog # DI0409 Size 1 Set

## Applications



Representative image of Proximity Ligation Assay of protein-protein interactions between CDK6 and AR. HeLa cells were stained with anti-CDK6 rabbit purified polyclonal antibody 1:1200 and anti-AR mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex. The images were analyzed using an optimized freeware (BlobFinder) download from The Centre for Image Analysis at Uppsala University.

## Specification

| | |
|---|---|
| **Product Description** | This protein protein interaction antibody pair set comes with two antibodies to detect the protein-protein interaction, one against the CDK6 protein, and the other against the AR protein for use in *in situ* Proximity Ligation Assay. See Publication Reference below. |
| **Reactivity** | Human |
| **Quality Control Testing** | Protein protein interaction immunofluorescence result.<br>Representative image of Proximity Ligation Assay of protein-protein interactions between CDK6 and AR. HeLa cells were stained with anti-CDK6 rabbit purified polyclonal antibody 1:1200 and anti-AR mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex. The images were analyzed using an optimized freeware (BlobFinder) download from The Centre for Image Analysis at Uppsala University. |
| **Supplied Products** | Antibody pair set content:<br>1. CDK6 rabbit purified polyclonal antibody (100 ug)<br>2. AR mouse monoclonal antibody (40 ug)<br>*Reagents are sufficient for at least 30-50 assays using recommended protocols. |
| **Storage Instruction** | Store reagents of the antibody pair set at -20°C or lower. Please aliquot to avoid repeated freeze thaw cycle. Reagents should be returned to -20°C storage immediately after use. |

## Applications

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- *In situ* Proximity Ligation Assay (Cell)

## Gene Info — AR

| | |
|---|---|
| **Entrez GeneID** | 367 |
| **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 fun ctional domains: the N-terminal domain, DNA-binding domain, and androgen-binding domain. Th e 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 polymorphi c 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 m uscular atrophy (Kennedy disease). Mutations in this gene are also associated with complete and rogen insensitivity (CAIS). Two alternatively spliced variants encoding distinct isoforms have been described. [provided by RefSeq |
| **Other Designations** | OTTHUMP00000023450\|OTTHUMP00000061928\|dihydrotestosterone receptor |

## Gene Info — CDK6

| | |
|---|---|
| **Entrez GeneID** | 1021 |
| **Gene Name** | CDK6 |
| **Gene Alias** | MGC59692, PLSTIRE, STQTL11 |
| **Gene Description** | cyclin-dependent kinase 6 |
| **Omim ID** | 603368 |
| **Gene Ontology** | Hyperlink |

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| | |
|---|---|
| **Gene Summary** | The protein encoded by this gene is a member of the cyclin-dependent protein kinase (CDK) family. CDK family members are highly similar to the gene products of Saccharomyces cerevisiae cdc28, and Schizosaccharomyces pombe cdc2, and are known to be important regulators of cell cycle progression. This kinase is a catalytic subunit of the protein kinase complex that is important for cell cycle G1 phase progression and G1/S transition. The activity of this kinase first appears in mid-G1 phase, which is controlled by the regulatory subunits including D-type cyclins and members of INK4 family of CDK inhibitors. This kinase, as well as CDK4, has been shown to phosphorylate, and thus regulate the activity of, tumor suppressor protein Rb. [provided by RefSeq |
| **Other Designations** | cell division protein kinase 6 |

## Pathway

- Cell cycle
- Chronic myeloid leukemia
- Glioma
- Melanoma
- Non-small cell lung cancer
- p53 signaling pathway
- Pancreatic cancer
- Pathways in cancer
- Pathways in cancer
- Prostate cancer
- Small cell lung cancer

## Disease

- Abortion
- Acne Vulgaris
- Adenocarcinoma
- Adenocarcinoma
- Adrenal Hyperplasia

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- Alcoholism
- Alopecia
- Alzheimer disease
- Androgen-Insensitivity Syndrome
- Angina Pectoris
- Antisocial Personality Disorder
- Arteriosclerosis
- Arthritis
- Arthritis
- Asperger Syndrome
- Atherosclerosis
- Attention Deficit Disorder with Hyperactivity
- Autistic Disorder
- Autoimmune Diseases
- Azoospermia
- Biliary Tract Neoplasms
- Bipolar Disorder
- Birth Weight
- Bone Neoplasms
- Brain Ischemia
- Breast cancer
- Breast cancer
- Breast Neoplasms
- Breast Neoplasms
- Cadaver
- Carcinoma

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- Carcinoma
- Cardiomyopathy
- Cardiovascular Diseases
- Cardiovascular Diseases
- Chromosome Aberrations
- Cognition
- Cognition Disorders
- Colon cancer
- Colonic Neoplasms
- Colorectal Neoplasms
- Coronary Disease
- Crohn Disease
- Cryptorchidism
- Depressive Disorder
- Diabetes Complications
- Diabetes Mellitus
- Diabetes Mellitus
- Diabetic Nephropathies
- Diabetic Retinopathy
- Disease Progression
- Disease Progression
- Dyslipidemias
- Edema
- Edema
- Endometrial Neoplasms
- Endometriosis

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- Epilepsy
- Esophageal Neoplasms
- Esophageal Neoplasms
- Fibroadenoma
- Fractures
- Fragile X syndrome
- Friedreich Ataxia
- Functional Laterality
- Gallstones
- Gender Identity
- Genetic Predisposition to Disease
- Genetic Predisposition to Disease
- Germinoma
- Gonadal Dysgenesis
- Growth Disorders
- Gynecomastia
- Head and Neck Neoplasms
- Head and Neck Neoplasms
- Heart Diseases
- Hepatitis B
- Hepatitis C
- Hip Fractures
- Hirsutism
- Hyperandrogenism
- Hyperplasia
- Hypertension

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- Hypertrophy
- Hypogonadism
- Hypospadias
- Infertility
- Inflammation
- Inflammation
- Insulin Resistance
- Kidney Failure
- 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
- Mouth Neoplasms
- Muscular Atrophy
- Muscular Disorders

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- Myocardial Infarction
- Myoclonic Epilepsies
- Myotonic dystrophy
- NARP
- Neoplasm Invasiveness
- Neoplasm Metastasis
- Neoplasm Recurrence
- Neoplasms
- Neoplasms
- Neovascularization
- Neuropsychological Tests
- Obesity
- Oligospermia
- Osteoarthritis
- Osteoporosis
- Ovarian cancer
- Ovarian cancer
- Ovarian Diseases
- Ovarian Failure
- Ovarian Neoplasms
- Ovarian Neoplasms
- Personality Assessment
- Personality Tests
- Phobic Disorders
- Polycystic Ovary Syndrome
- Precancerous Conditions

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- 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
- Recurrence
- Schizophrenia
- Seminoma
- Severe combined immunodeficiency
- Sex Chromosome Aberrations
- Sex determination
- Sexual Dysfunction
- Sexual Dysfunctions
- Social Perception
- Spinal Diseases
- Spinal Fractures
- Spinal muscular atrophy

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- Spinocerebellar ataxia
- Spinocerebellar Ataxias
- Stroke
- Substance Withdrawal Syndrome
- Substance-Related Disorders
- Task Performance and Analysis
- Testicular Neoplasms
- Thinness
- Thrombophilia
- Thyroid Neoplasms
- Tobacco Use Disorder
- Ureteral Neoplasms
- Urinary Bladder Neoplasms
- Urinary Bladder Neoplasms
- Urinary Calculi
- Uterine Neoplasms
- Virilism
- Wegener Granulomatosis
- Weight Gain
- Weight Loss

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