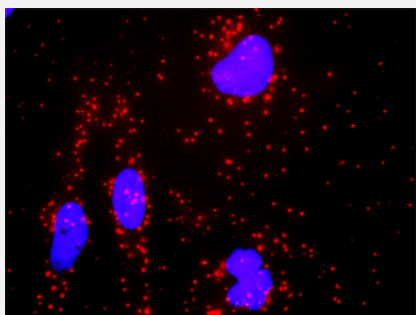


KLK3 & AR Protein Protein Interaction Antibody Pair

Catalog # DI0340

Size 1 Set

Applications



Representative image of Proximity Ligation Assay of protein-protein interactions between KLK3 and AR. HeLa cells were stained with anti-KLK3 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 KLK3 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.
Representative image of Proximity Ligation Assay of protein-protein interactions between KLK3 and AR. HeLa cells were stained with anti-KLK3 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 Product

Antibody pair set content:
1. KLK3 rabbit purified polyclonal antibody (100 ug)
2. AR mouse monoclonal antibody (40 ug)
*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

- *In situ* Proximity Ligation Assay (Cell)

Gene Info — KLK3

Entrez GeneID	354
Gene Name	KLK3
Gene Alias	APS, KLK2A1, PSA, hK3
Gene Description	kallikrein-related peptidase 3
Omim ID	176820
Gene Ontology	Hyperlink
Gene Summary	Kallikreins are a subgroup of serine proteases having diverse physiological functions. Growing evidence suggests that many kallikreins are implicated in carcinogenesis and some have potential as novel cancer and other disease biomarkers. This gene is one of the fifteen kallikrein subfamily members located in a cluster on chromosome 19. Its protein product is a protease present in seminal plasma. It is thought to function normally in the liquefaction of seminal coagulum, presumably by hydrolysis of the high molecular mass seminal vesicle protein. Serum level of this protein, called PSA in the clinical setting, is useful in the diagnosis and monitoring of prostatic carcinoma. Alternate splicing of this gene generates several transcript variants encoding different isoforms. [provided by RefSeq]
Other Designations	P-30 antigen gamma-seminoprotein kallikrein 3, (prostate specific antigen) prostate specific antigen semenogelase seminin

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 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

Pathway

- [Pathways in cancer](#)
- [Pathways in cancer](#)
- [Prostate 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 cancer](#)
- [Breast Neoplasms](#)
- [Breast Neoplasms](#)
- [Cadaver](#)
- [Carcinoma](#)
- [Cardiomyopathy](#)
- [Cardiovascular Diseases](#)
- [Cardiovascular Diseases](#)
- [Chromosome Aberrations](#)
- [Cognition](#)
- [Cognition Disorders](#)
- [Colon cancer](#)
- [Colonic Neoplasms](#)
- [Colorectal Neoplasms](#)

- [Coronary Disease](#)
- [Cryptorchidism](#)
- [Depressive Disorder](#)
- [Diabetes Complications](#)
- [Diabetes Mellitus](#)
- [Diabetes Mellitus](#)
- [Diabetic Nephropathies](#)
- [Diabetic Retinopathy](#)
- [Disease Progression](#)
- [Disease Progression](#)
- [Dyslipidemias](#)
- [Edema](#)
- [Edema](#)
- [Endometrial Neoplasms](#)
- [Endometriosis](#)
- [Epilepsy](#)
- [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](#)
- [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](#)
- [Lymphatic Metastasis](#)
- [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 Invasiveness](#)
- [Neoplasm Metastasis](#)
- [Neoplasm Metastasis](#)
- [Neoplasm Recurrence](#)
- [Neoplasm Recurrence](#)
- [Neoplasms](#)
- [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](#)
- [Prostate cancer](#)
- [Prostatic Diseases](#)
- [Prostatic Hyperplasia](#)
- [Prostatic Hyperplasia](#)
- [Prostatic Neoplasms](#)
- [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](#)