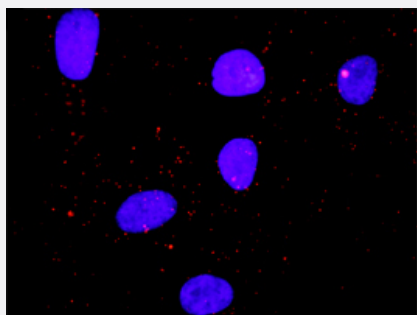


AR(phospho S213) & AR Protein Phosphorylation Antibody Pair

Catalog # DP0169

Size 1 Set

Applications



Representative image of Proximity Ligation Assay of protein phosphorylation. HeLa cells were stained with dual recognition antibody pair set, rabbit polyclonal antibody 1:1200 and mouse monoclonal antibody 1:50. Each red dot represents one single phosphorylated protein. The images were analyzed using an optimized freeware (BlobFinder) download from The Centre for Image Analysis at Uppsala University.

Specification

Product Description

This protein phosphorylation antibody pair set comes with two antibodies, one against the AR protein, and the other against the specific S213 phosphorylated site of AR for use in [in situ Proximity Ligation Assay](#). [See Publication Reference below](#).

Reactivity

Human

Quality Control Testing

Dual recognition immunofluorescence result.
Representative image of Proximity Ligation Assay of protein phosphorylation. HeLa cells were stained with dual recognition antibody pair set, rabbit polyclonal antibody 1:1200 and mouse monoclonal antibody 1:50. Each red dot represents one single phosphorylated protein. 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. Phospho-AR S213 rabbit polyclonal antibody (20 ul)
In PBS (without Mg²⁺ and Ca²⁺), 150 mM NaCl, pH 7.4 (0.02% sodium azide, 50% glycerol)
2. AR mouse monoclonal antibody (40 ug)
In 1x PBS, pH 7.2
*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 — 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](#)
- [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](#)
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- [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](#)
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- [Ovarian cancer](#)
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- [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](#)