Androgen Receptor Antibody for IHC / AR Immunohistochemistry Antibody [clone MSVA-367R] (V6092)

Catalog No.	Formulation	Size
V6092-100UG	Antibody in 1X PBS with 0.05% BSA, 0.05% sodium azide	100 ug
V6092-20UG	Antibody in 1X PBS with 0.05% BSA, 0.05% sodium azide	20 ug

Recombinant RABBIT MONOCLONAL

Bulk quote request

Species Reactivity	Human
Format	Purified
Host	Rabbit
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG, kappa
Clone Name	MSVA-367R
UniProt	P10275
Localization	Cytoplasm, Nucleus
Applications	Immunohistochemistry (FFPE): 1:100-1:200
Limitations	This Androgen Receptor Antibody for IHC / AR Immunohistochemistry Antibody is available for research use only.



Androgen Receptor Antibody for IHC Tissue Microarray (TMA). Immunohistochemistry analysis of Androgen receptor / AR in formalin-fixed paraffin-embedded human normal and cancer tissue microarrays using rabbit monoclonal antibody clone MSVA-367R. Tissue microarray (TMA) staining with HRP-DAB brown chromogen demonstrates strong nuclear localization in androgen-responsive cells, including prostate epithelium and seminal vesicle epithelium, while most non-androgen-dependent tissues show minimal to absent staining. Within tumor tissue microarrays, prominent nuclear staining highlights androgen receptor-positive tumors such as prostate adenocarcinoma, whereas many other carcinoma types show little to no detectable signal. Evaluation across large TMA panels enables direct comparison of AR expression across diverse tissue types under standardized conditions. The observed staining patterns align with reported Androgen receptor expression profiles in the Human Protein Atlas and support its use as a marker of androgen signaling and tumor cell differentiation.

Description

Androgen receptor (AR), encoded by the AR gene and also known as nuclear receptor subfamily 3 group C member 4 (NR3C4), is a ligand-activated nuclear hormone receptor that mediates cellular responses to androgens such as testosterone and dihydrotestosterone. AR functions as a transcription factor that regulates genes involved in male reproductive development, prostate biology, and androgen signaling pathways. Androgen Receptor Antibody for IHC (clone MSVA-367R) recognizes the AR protein and is designed for immunohistochemistry detection of androgen receptor expression in formalin-fixed, paraffin-embedded tissue sections.

Immunohistochemistry analysis of androgen receptor is widely used in research and pathology to visualize AR expression within intact tissue architecture. Because AR functions as a transcription factor, immunohistochemistry staining typically appears as distinct nuclear signal in androgen-responsive epithelial cells. This nuclear staining pattern allows clear identification of AR-positive cell populations within tissues and provides a reliable method for evaluating androgen signaling activity in histological samples.

In normal tissues, androgen receptor immunohistochemistry staining is most prominent in organs that depend on androgen signaling. Strong nuclear staining is commonly observed in prostate epithelial cells and seminal vesicle epithelium, reflecting the central role of AR signaling in male reproductive physiology. Additional nuclear staining may be detected in selected epithelial or stromal cell populations in other tissues where androgen signaling contributes to cellular regulation.

Tissue microarray immunohistochemistry analysis provides a powerful method to evaluate androgen receptor expression across large panels of human tissues. In TMA studies using Androgen Receptor Antibody for IHC (clone MSVA-367R), nuclear AR staining is readily detected in prostate tissue cores and other androgen-responsive tissues, while most unrelated organs show little or no staining. This restricted distribution highlights the tissue-specific nature of androgen receptor expression and allows clear interpretation of AR-positive versus AR-negative tissues in immunohistochemistry preparations.

Analysis of cancer tissue microarrays further demonstrates the diagnostic value of androgen receptor immunohistochemistry. Strong nuclear staining is frequently observed in prostate adenocarcinoma samples, where AR signaling remains a key driver of tumor biology. In contrast, many non-prostatic tumor types show minimal or absent AR staining, enabling immunohistochemistry analysis to distinguish AR-expressing tumors from those lacking androgen receptor activity. Large-scale TMA screening therefore provides important context for evaluating AR expression patterns across diverse tumor types.

Androgen Receptor Antibody for IHC (clone MSVA-367R) is a recombinant rabbit monoclonal antibody developed to produce consistent nuclear staining in immunohistochemistry applications. When applied to formalin-fixed tissue sections, staining typically appears as nuclear HRP-DAB signal in androgen-responsive epithelial cells and AR-positive tumors. The antibody supports studies examining androgen receptor biology, androgen signaling pathways, and AR expression patterns across normal tissues and cancer tissue microarrays.

For additional information on androgen receptor biology and complementary antibody validation, visit our Androgen Receptor Antibody CDF-1 / Steroid Hormone Receptor Antibody page.

This antibody is also part of a broader collection of IHC antibodies validated by tissue microarray analysis, supporting consistent staining across normal and cancer tissues.

Application Notes

1. Optimal dilution of the Androgen Receptor Antibody for IHC / AR Immunohistochemistry Antibody should be determined by the researcher.

2. This AR / Androgen Receptor antibody is recombinantly produced by expression in CHO cells.

3. Manual Protocol: Freshly cut sections should be used (less than 10 days between cutting and staining). Heat-induced

antigen retrieval for 5 minutes in an autoclave at 121oC in pH 7.8 Target Retrieval Solution buffer. Apply the antibody at a dilution of 1:150 at 37oC for 60 minutes. Visualization of bound antibody by the EnVision Kit (Dako, Agilent) according to the manufacturer's directions.

Immunogen

Synthetic peptide corresponding to residues (within amino acids 1-100) of Androgen Receptor was used as the immunogen for the AR / Androgen Receptor antibody.

Storage

AR / Androgen Receptor antibody with sodium azide - store at 2 to 8oC; antibody without sodium azide - store at -20 to -80oC.

Alternate Names

AR antibody, Androgen receptor antibody, NR3C4 antibody, Androgen receptor nuclear receptor antibody

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