Human Androgen R/NR3C4 Isoform 2 Antibody

Monoclonal Mouse IgG_1 Clone # 1022602

Catalog Number: MAB58764

DESCRIPTION

Species Reactivity	Human
Specificity	Detects Human Androgen R/NR3C4 isoform 2 peptide in direct ELISAs.
Source	Monoclonal Mouse IgG_1 Clone # 1022602
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Human Androgen R/NR3C4 isoform 2 synthetic peptide Accession # P10275
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 μm filtered solution in PBS.

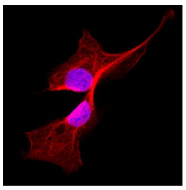
APPLICATIONS

Please Note: *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

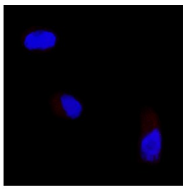
	Recommended Concentration	Sample
Immunocytochemistry	8-25 µg/mL	Immersion fixed A549 human lung carcinoma cell line

DATA

Immunocytochemistry



Positive (A549 cells)



Negative (PC-3 cells)

Androgen R/NR3C4 in A549 Human Cell Line.
Androgen R/NR3C4 was detected in immersion fixed A549 human lung carcinoma cell line (positive staining) and PC-3 human prostate cancer cell line (negative staining) using Mouse Anti-Human Androgen R/NR3C4 Monoclonal Antibody (Catalog # MAB58764) at 8 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Mouse IgG Secondary Antibody (red; Catalog # NL007) and counterstained with DAPI (blue). Specific staining was localized to plasma membrane and cytoplasm. Staining was performed using our protocol for Fluorescent ICC Staining of Non-adherent Cells.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** • 12 months from date of receipt, -20 to -70 °C as supplied. • 1 month, 2 to 8 °C under sterile conditions after reconstitution. • 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

The ligand binding domain of human AR (aa 661-920) shares 100% aa sequence identity with mouse and rat AR. AR (Androgen receptor) is a 99 kDa (predicted) member of the NR3 subfamily, nuclear hormone receptor family of proteins. Due to a high number of Gln and Pro residues, it runs anomalously at 100-120 kDa in SDS-PAGE. It is widely expressed, being found in neurons, endothelial cells, osteoblasts, chrondrocytes, mascrophages, adipocytes, and prostate epithelium. Human AR is 919 amino acids (aa) in length. It contains three discrete domains: a "modulating" N-terminus (aa 1-553) that is rich in Gln, Pro and Gly, a Zn-finger DNA-binding region (aa 554-635), and a ligand-binding domain (aa 672-917). AR is highly polymorphic at the N-terminus, with total Gln and Gly residues differing by seven or more residues among individuals. Multiple potential splice forms exist, including an alternative start site at Met189 and a seven aa substitution for aa 1-538 that generates a 45 kDa isoform. AR does homodimerize, apparently with multiple isotypes. Over aa 661-920, human and mouse are identical in aa sequence.

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