

Human/Mouse/Rat Androgen R/NR3C4 Antibody

Monoclonal Mouse IgG_{2B} Clone # 523339

Catalog Number: MAB5876

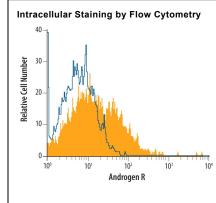
DESCRIPTION		
Species Reactivity	Human/Mouse/Rat	
Specificity	Detects human Androgen R/NR3C4 in direct ELISAs.	
Source	Monoclonal Mouse IgG _{2B} Clone # 523339	
Purification	Protein A or G purified from hybridoma culture supernatant	
Immunogen	E. coli-derived recombinant human Androgen R/NR3C4 Thr660-Gln919 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
Intracellular Staining by Flow Cytometry	2.5 µg/10 ⁶ cells	See Below
CyTOF-ready	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

DATA



Detection of Androgen R/ NR3C4 in LNCaP Human Cell Line by Flow Cytometry. LNCaP human prostate cancer cell line was stained with Mouse Anti-Human/Mouse/Rat Androgen R/NR3C4 Monoclonal Antibody (Catalog # MAB5876, filled histogram) or isotype control antibody (Catalog # MAB0041, open histogram), followed by Phycoerythrinconjugated Anti-Mouse IgG F (ab')₂ Secondary Antibody (Catalog # F0102B). To facilitate intracellular staining, cells were fixed with Flow Cytometry Fixation Buffer (Catalog # FC004) and permeabilized with Flow Cytometry Permeabilization/Wash Buffer I (Catalog # FC005). View our protocol for Staining Intracellular Molecules

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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