

#### DESCRIPTION

|                                                                                                                                                                                                         |                                                                                                                     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b>                                                                                                                                                                               | Human/Mouse/Rat                                                                                                     |
| <b>Specificity</b>                                                                                                                                                                                      | Detects human Androgen R/NR3C4 in direct ELISAs. Detects human, mouse and rat Androgen R/NR3C4 in Western blotting. |
| <b>Source</b>                                                                                                                                                                                           | Polyclonal Sheep IgG                                                                                                |
| <b>Purification</b>                                                                                                                                                                                     | Antigen Affinity-purified                                                                                           |
| <b>Immunogen</b>                                                                                                                                                                                        | <i>E. coli</i> -derived recombinant human Androgen R/NR3C4<br>Thr660-Gln919<br>Accession # P10275                   |
| <b>Conjugate</b>                                                                                                                                                                                        | Alexa Fluor 700<br>Excitation Wavelength: 675-700 nm<br>Emission Wavelength: 723 nm                                 |
| <b>Formulation</b>                                                                                                                                                                                      | Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide                                                        |
| *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions. |                                                                                                                     |

#### 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.

**Western Blot** Optimal dilution of this antibody should be experimentally determined.

#### PREPARATION AND STORAGE

|                                |                                                                                                                   |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------|
| <b>Shipping</b>                | The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below. |
| <b>Stability &amp; Storage</b> | Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied                          |

#### 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, chondrocytes, macrophages, 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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