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#5153

## Androgen Receptor (D6F11) XP<sup>®</sup> Rabbit mAb

**For Research Use Only. Not for Use in Diagnostic Procedures.**

|  |                         |                                   |                         |                                      |                               |                               |
|--|-------------------------|-----------------------------------|-------------------------|--------------------------------------|-------------------------------|-------------------------------|
| <b>Applications:</b><br>W, W-S, IP, IHC-P,<br>IF-IC, FC-FP, ChIP,<br>ChIP-seq, C&R | <b>Reactivity:</b><br>H | <b>Sensitivity:</b><br>Endogenous | <b>MW (kDa):</b><br>110 | <b>Source/Isotype:</b><br>Rabbit IgG | <b>UniProt ID:</b><br>#P10275 | <b>Entrez-Gene Id:</b><br>367 |
|--|-------------------------|-----------------------------------|-------------------------|--------------------------------------|-------------------------------|-------------------------------|

### Product Usage Information

For optimal ChIP and ChIP-seq results, use 5 µl of antibody and 10 µg of chromatin (approximately 4 × 10<sup>6</sup> cells) per IP. This antibody has been validated using SimpleChIP<sup>®</sup> Enzymatic Chromatin IP Kits.

The CUT&RUN dilution was determined using the CUT&RUN Assay Kit #86652.

| Application                              | Dilution       |
|--|----------------|
| Western Blotting                         | 1:2000         |
| Simple Western™                          | 1:50 - 1:250   |
| Immunoprecipitation                      | 1:50           |
| Immunohistochemistry (Paraffin)          | 1:200 - 1:800  |
| Immunofluorescence (Immunocytochemistry) | 1:600 - 1:1200 |
| Flow Cytometry (Fixed/Permeabilized)     | 1:400 - 1:800  |
| Chromatin IP                             | 1:100          |
| Chromatin IP-seq                         | 1:100          |
| CUT&RUN                                  | 1:100          |

### Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

For a carrier free (BSA and azide free) version of this product see product #23791.

### Specificity/Sensitivity

Androgen Receptor (D6F11) XP<sup>®</sup> Rabbit mAb detects endogenous levels of total androgen receptor protein.

### Source / Purification

Monoclonal antibody is produced by immunizing animals with recombinant protein corresponding to residues near the amino terminal region of human androgen receptor protein.

### Background

Androgen receptor (AR), a zinc finger transcription factor belonging to the nuclear receptor superfamily, is activated by phosphorylation and dimerization upon ligand binding (1). This promotes nuclear localization and binding of AR to androgen response elements in androgen target genes. Research studies have shown that AR plays a crucial role in several stages of male development and the progression of prostate cancer (2,3).

### Background References

- Li, J. and Al-Azzawi, F. (2009) *Maturitas* 63, 142-8.
- Avila, D.M. et al. (2001) *J. Steroid. Biochem. Mol. Biol.* 76, 135-142.
- Montgomery, J.S. et al. (2001) *J. Pathol.* 195, 138-146.

### Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

### Western Blot Buffer

**IMPORTANT:** For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

### Applications Key

**W:** Western Blotting **W-S:** Simple Western™ **IP:** Immunoprecipitation **IHC-P:** Immunohistochemistry (Paraffin) **IF-IC:** Immunofluorescence (Immunocytochemistry) **FC-FP:** Flow Cytometry (Fixed/Permeabilized) **ChIP:** Chromatin IP **ChIP-seq:** Chromatin IP-seq **C&R:** CUT&RUN

### Cross-Reactivity Key

**H:** Human

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