

Store at -20C  
#5153

## Androgen Receptor (D6F11) XP® Rabbit mAb



**Cell Signaling**  
TECHNOLOGY®

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

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

### Product Usage Information

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

### Specificity / Sensitivity

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

Androgen Receptor (D6F11) XP® 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

1. Li, J. and Al-Azzawi, F. (2009) *Maturitas* 63, 142-8.
2. Avila, D.M. et al. (2001) *J. Steroid. Biochem. Mol. Biol.* 76, 135-142.
3. 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

**WB:** 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 **M:** mouse **R:** rat **Hm:** hamster **Mk:** monkey **Vir:** virus **Mi:** mink **C:** chicken **Dm:** D. melanogaster  
**X:** Xenopus **Z:** zebrafish **B:** bovine **Dg:** dog **Pg:** pig **Sc:** S. cerevisiae **Ce:** C. elegans **Hr:** horse  
**GP:** Guinea Pig **Rab:** rabbit **All:** all species expected

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