

Store at  
-20°C  
**#82055**

# Androgen Receptor (E3S4N) Rabbit mAb (Carboxy-terminal Antigen) (ChIP Formulated)



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Entrez-Gene ID #367  
UniProt ID #P10275

New 03/19

For Research Use Only. Not For Use In Diagnostic Procedures.

Applications  
ChIP  
Endogenous

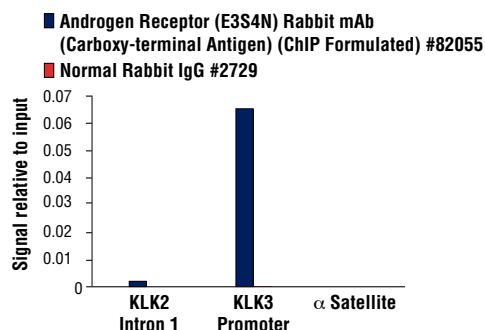
Species Cross-Reactivity\*  
H

Isotype  
Rabbit IgG\*\*

**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).

**Specificity/Sensitivity:** Androgen Receptor (E3S4N) Rabbit mAb (Carboxy-terminal Antigen) (ChIP Formulated) recognizes endogenous levels of total Androgen Receptor protein. This antibody does not detect AR-V7 protein.

**Source/Purification:** Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Val662 of human Androgen Receptor protein.



Chromatin immunoprecipitations were performed with cross-linked chromatin from LNCaP cells treated with Phenol Red Free/Charcoal Stripped FBS for 72 hr + DHT (10 nM) for 4 hr and either Androgen Receptor (E3S4N) Rabbit mAb (Carboxy-terminal Antigen) (ChIP Formulated) #82055 or Normal Rabbit IgG #2729 using SimpleChIP® Plus Enzymatic Chromatin IP Kit (Magnetic Beads) #9005. The enriched DNA was quantified by real-time PCR using SimpleChIP® Human KLK2 Intron 1 Primers #62086, SimpleChIP® Human KLK3 Promoter Primers #32784, and SimpleChIP® Human α Satellite Repeat Primers #4486. The amount of immunoprecipitated DNA in each sample is represented as signal relative to the total amount of input chromatin, which is equivalent to one.

**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.

\*Species cross-reactivity is determined by western blot.

\*\*Anti-rabbit secondary antibodies must be used to detect this antibody.

#### Recommended Antibody Dilutions:

Chromatin IP 1:50  
Optimal ChIP conditions: 10 µl of antibody & 10 µg of chromatin (4 x 10<sup>6</sup> cells) per IP. Antibody validated using SimpleChIP® Enzymatic ChIP Kits.

For product specific protocols and a complete listing of recommended companion products please see the product web page at [www.cellsignal.com](http://www.cellsignal.com).

#### 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.

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Applications: W—Western IP—Immunoprecipitation IHC—Immunohistochemistry ChIP—Chromatin Immunoprecipitation IF—Immunofluorescence F—Flow cytometry E-P—ELISA-Peptide Species Cross-Reactivity: H—human M—mouse R—rat Hm—hamster Mk—monkey 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 All—all species expected Species enclosed in parentheses are predicted to react based on 100% homology.