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# Androgen Receptor Antibody Sampler Kit



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1 Kit (3 x 20 microliters)

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

Product Includes	Product #	Quantity	Mol. Wt	Isotype/Source
Androgen Receptor (E3S4N) Rabbit mAb (Carboxy-terminal Antigen)	70317	20 µl	110 kDa	Rabbit IgG
Androgen Receptor (D6F11) XP® Rabbit mAb	5153	20 µl	110 kDa	Rabbit IgG
Androgen Receptor (AR-V7 Specific) (E3O8L) Rabbit mAb	19672	20 µl	80 kDa	Rabbit IgG
Anti-rabbit IgG, HRP-linked Antibody	7074	100 µl		Goat

Please visit [cellsignal.com](http://cellsignal.com) for individual component applications, species cross-reactivity, dilutions, protocols, and additional product information.

## Description

The Androgen Receptor Antibody Sampler Kit provides an economical means of detecting full-length Androgen Receptor and AR-V7 isoforms. The kit includes enough antibody to perform two western blot experiments with each primary antibody.

## 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).

The AR3 or AR-V7 isoform, which lacks the typical ligand binding domain, is created through the alternative splicing of cryptic exons (4-5). AR-V7 is frequently expressed in castration-resistant prostate cancer (CRPC) and while dependent on the activity of the full-length androgen receptor (AR-FL), AR-V7 can activate a completely distinct transcriptional program (6-8). While enzalutamide and abiraterone have been beneficial in treating CRPC through the ligand binding domain of AR-FL, resistance in patients has been shown to be associated with AR-V7 detection in circulating tumor cells (9-12). Studies probing into mechanisms of overcoming this resistance are currently being explored and may help in stratifying patient populations for more personalized therapies (13-15).

## Background References

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