

**PhosphoPlus® Androgen Receptor
(Ser258) Antibody Duet**

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

UniProt ID: #P10275
Entrez-Gene Id: 367

Product Includes	Product #	Quantity	Mol. Wt	Isotype/Source
Androgen Receptor (D6F11) XP® Rabbit mAb	5153	100 µl	110 kDa	Rabbit IgG
Phospho-Androgen Receptor (Ser258) (E4L1I) Rabbit mAb	16969	100 µl	110 kDa	Rabbit IgG

Please visit cellsignal.com for individual component applications, species cross-reactivity, dilutions, protocols, and additional product information.

Description

PhosphoPlus® Duets from Cell Signaling Technology (CST) provide a means to assess protein activation status. Each Duet contains an activation-state and total protein antibody to your target of interest. These antibodies have been selected from CST's product offering based upon superior performance in specified applications.

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 antibodies.*

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).

Upon ligand binding, AR becomes phosphorylated on many residues, including Ser258 (4).

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.
- Gioeli, D. et al. (2002) *J Biol Chem* 277, 29304-14.

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