Androgen Receptor (D6F11) XP® Rabbit mAb

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 the androgen target genes. AR plays a crucial role in several stages of male development and the progression of prostate cancer (2,3).

Specificity/Sensitivity: 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 References:

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:
Western blotting 1:2000
Immunohistochemistry (Paraffin) 1:400†
Unmasking buffer: Citrate Antibody diluent: SignalStain® Antibody Diluent #8112
Detection reagent: SignalStain® Boost (HRP, Rabbit) #8114
†Optimal IHC dilutions determined using SignalStain® Boost IHC Detection Reagent.

Flow Cytometry 1:400

For application specific protocols please see the web page for this product at www.cellsignal.com.

Please visit www.cellsignal.com for a complete listing of recommended companion products.

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

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Immunohistochemical analysis of paraffin-embedded LNCaP (AR+, left) and DU145 (AR-, right) using Androgen Receptor (D6F11) XP® Rabbit mAb.

Immunohistochemical analysis of paraffin-embedded human prostate carcinoma using Androgen Receptor (D6F11) XP® Rabbit mAb.

Flow cytometric analysis of DU-145 cells (red) and LNCaP cells (blue) using Androgen Receptor (D6F11) XP® Rabbit mAb.