OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for TA336428

Androgen Receptor (AR) Mouse Monoclonal Antibody [Clone ID: 156C135.2]

Product data:

Product Type:	Primary Antibodies
Clone Name:	156C135.2
Applications:	WB
Recommend Dilution:	WB: 1-4 ug/ml, IHC: 1:10-1:500, IHC-P: 1:10-1:500
Reactivity:	Human, Primate
Host:	Mouse
Isotype:	IgG1, kappa
Clonality:	Monoclonal
Immunogen:	This antibody was developed against a synthetic peptide corresponding to amino acids 207-221 (GRAREAS*GAPTSSKD) of human androgen receptor, containing the serine 213 phosphorylation site: GenBank Accession No. A39248. Note: S* refers to phosphorylated se
Formulation:	PBS containing 0.05% BSA, 0.05% Sodium Azide. Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Concentration:	0.5 mg/ml
Purification:	Protein G purified
Gene Name:	androgen receptor
Database Link:	NP_000035 Entrez Gene 367 Human

View online »

Background: The androgen receptor (AR) is an approx. 110 kDa androgen-dependent transcription factor that is a member of the steroid/nuclear receptor gene superfamily. The AR signaling pathway plays a key role in development and function of male reproductive organs, including the prostate and epididymis. AR also plays a role in nonreproductive organs, such as muscle, hair follicles, and brain. Abnormalities in the AR signaling pathway have been linked to a number of diseases, including prostate cancer, Kennedy's disease and male infertility. The PI3K/Akt signaling pathway plays an important role in regulating AR activity through phosphorylation of AR at Ser213/210 and Ser791/790. Growth factors or cytokines may induce phosphorylation of AR through the PI3K/Akt pathway. IGF-1 activates the phosphatidylinositol 3-kinase(PI3K)/AKT pathway in LNCap at high passage number and increases phosphorylation of of AR at Ser213/210 (see western blot) and Ser791/790 (Lin et al. 2003). The western blot results also show that inhibition of the PI3K/Akt pathway by LY294002 prior to incubation with IGF-1 suppressed AR phosphorylation at Ser213/210. Activation of the PI3K/AKt pathway is thought to have a survival role in prostate cancer by protecting cells from apoptosis.

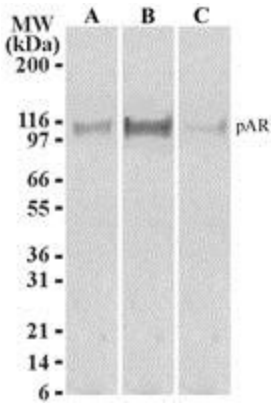
Synonyms: AIS; AR8; DHTR; HUMARA; HYSP1; KD; NR3C4; SBMA; SMAX1; TFM

Note: Immunohistochemistry-Paraffin reported in literature (Lin et al, 2007).

Protein Families: Druggable Genome, Nuclear Hormone Receptor, Transcription Factors

Protein Pathways: Oocyte meiosis, Pathways in cancer, Prostate cancer

Product images:



Western Blot: Androgen Receptor [p Ser213, p Ser210] Antibody (156C135.2) TA336428 - LNCaP cells (passage number 38) were serum-starved for 2 days. After serum starvation, cells were (A) left untreated, (B) treated with 100 ng/ml IGF-1 for 4h, or &