

Product datasheet for **DM245-05**

Androgen Receptor (AR) Mouse Monoclonal Antibody [Clone ID: AR441]

Product data:

| | |
|-------------------------|---|
| Product Type: | Primary Antibodies |
| Clone Name: | AR441 |
| Applications: | IHC, WB |
| Recommended Dilution: | Western Blot: 1/50-1/100. Immunohistochemistry on Paraffin Embedded Sections: Use at 1/100-1/200 with Polymer Detection system. Formalin fixed paraffin embedded tissue sections require high temperature antigen unmasking with 10 mM Citrate buffer, pH 6.0 or 1 mM EDTA, pH 8.0 buffer prior to immunostaining. <i>Incubation Time:</i> 30 minutes at RT. <i>Recommended Positive Control:</i> Prostate carcinoma. |
| Reactivity: | Canine, Human |
| Host: | Mouse |
| Isotype: | IgG1 |
| Clonality: | Monoclonal |
| Immunogen: | BALB/C mice were injected with a synthetic peptide, amino acid 340-356 of Human Androgen Receptor |
| Specificity: | This antibody is specific to a protein of 110 kD, identified as androgen receptor. This antibody reacts with full length of AR and also with the newly described A form of the receptor. This antibody does not cross react with estrogen, progesterone or glucocorticoid receptors. Cellular Localization: Nuclear. |
| Formulation: | State: Purified State: Liquid purified Ig fraction Preservative: Less than 0.1% Sodium Azide |
| Conjugation: | Unconjugated |
| Storage: | Store undiluted at 2-8°C. |
| Stability: | Shelf life: one year from despatch. |
| Predicted Protein Size: | 110 kDa |



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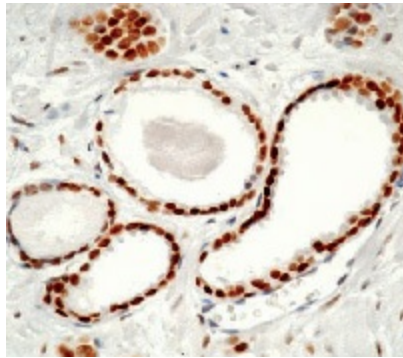
Gene Name: androgen receptor

Database Link: [Entrez Gene 367 Human P10275](#)

Background: The androgen receptor (AR) is a 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. Activation of the PI3K/Akt pathway is thought to have a survival role in prostate cancer by protecting cells from apoptosis.

Synonyms: Dihydrotestosterone receptor, DHTR, NR3C4

Product images:



Formalin fixed paraffin embedded human prostate stained with Androgen Receptor antibody DM245