

Catalog Number	Product Name	Quantity	Clonality, clone (isotype)	Reactive species	Applications	Reg. Status
415900	Mouse anti-human AR	100 µg	mAb clone H7507 (Ms IgG2a)	Hu, Rt	WB, ELISA, IP, IHC	RUO

## Mouse Anti-Human Androgen Receptor

**Description** Androgen receptor (AR, NR3C4) is a member of the steroid receptor family. The steroid, 5- $\alpha$ -dihydrotestosterone can bind to the AR as a ligand. AR is expressed in most tissues and is associated with at least three types of diseases: X-linked androgen insensitivity, spinal/bulbar muscular atrophy and cancer. In the presence of its ligand, AR binds as a homodimer to the sequence called ARE (androgen response element). AR has been shown to form heterodimers with glucocorticoid receptors. Two isoforms of AR were identified in human genital skin fibroblasts. The large isoform of 110 kDa (called AR-B) corresponds to the bona fide receptor, whereas the small one of 87 kDa (AR-A) initiates on an internal initiation codon.

**Nomenclature** NR3C4

**Genbank** M20132

**Origin** Produced in BALB/c mouse ascites after inoculation with hybridoma of mouse myeloma cells (NS-1) and spleen cells derived from a BALB/c mouse immunized with Baculovirus-expressed recombinant human AR (2-53 aa).

**Specificity** This antibody specifically recognizes human AR and cross reacts with rat AR. Not yet tested in other species.

**Purification** Ammonium sulfate fractionation

**Formulation** Concentration is 1 mg/mL in physiological saline with 0.1% sodium azide as a preservative.

Application	Recommended Concentration*
Western Blot	1 µg/mL
Non reducing Western Blot	Not tested
ELISA	0.3 µg/mL
Immunoprecipitation	Determine by use
Electrophoretic Mobility Shift Assay	Not tested
Chromatin Immunoprecipitation	Not tested
Immunohistochemistry	1-10 µg/mL

\*In order to obtain the best results, optimal working dilutions should be determined by each individual user.

**Storage** Store at 2 - 8°C up to one month. For long-term storage, the solution may be frozen at -20°C in working aliquots. Repeated freezing and thawing is not recommended. Storage in a frost-free freezer is not recommended.

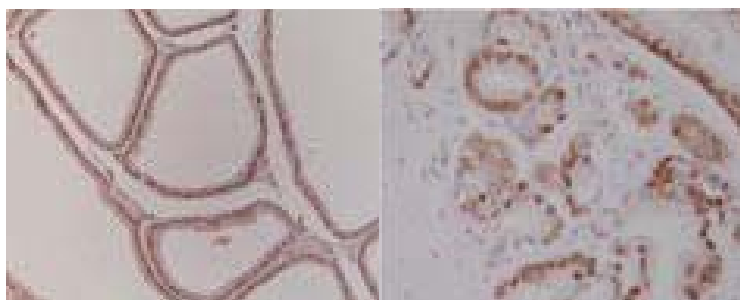
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PI415900

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Rat Prostate Gland  
Paraffin section

Human Prostate Gland  
Paraffin section

## Related Products

<i>Product</i>	<i>Conjugate</i>	<i>Cat. No.</i>
Protein A	Sepharose 4B	10-1041
rec-Protein G	Sepharose 4B	10-1241
ZyMAX™ Goat anti-rabbit IgG	Unconjugated	81-6100
ZyMAX™ Goat anti-mouse IgG	Unconjugated	81-6500

## Secondary Antibody Conjugates

<i>Conjugate</i>	<i>Goat anti-rabbit IgG (H+L)</i>	<i>Goat anti-mouse IgG (H+L)</i>	<i>Ex/Em*</i>	<i>Fluorescence similar to--</i>
Alexa Fluor® 488	A11008	A11001	495/519	FITC
Alexa Fluor® 555	A21428	A21422	555/565	Cy3
Alexa Fluor® 594	A11012	A11005	590/617	Texas Red®
Alexa Fluor® 647	A21244	A21235	650/668	Cy5
HRP	81-6120	81-6520	NA**	NA
AP	81-6122	81-6522	NA	NA
Biotin	B2770	B2763	NA	NA

\*Excitation/emission (nm); \*\*Not applicable

For additional secondary antibody conjugates, visit [www.invitrogen.com/antibodies](http://www.invitrogen.com/antibodies)

## For Research Use Only

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