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Research Use Only. Not for diagnostic or therapeutic use.

EB06441 - Goat Anti-Androgen Receptor Antibody

Size: 100µg specific antibody in 200µl



Target Protein

Principal Names: androgen receptor, dihydrotestosterone receptor, AR, KD, AIS, TFM,

DHTR, SBMA, NR3C4, SMAX1, HUMARA, HYSP1, androgen receptor,

dihydrotestosterone receptor, RP11-383C12.1

Official Symbol: AR

Accession Number(s): NP_000035.2

Human GeneID(s): 367

Non-Human GenelD(s): 11835 (mouse), 24208 (rat)

Important Comments: This antibody is expected to recognize isoform 1 (NP_000035.2)

only.

Immunogen

Peptide with sequence EVQLGLGRVYPRPPSC, from the N Terminus of the protein sequence according to NP_000035.2.

Please note the peptide is available for sale.

Purification and Storage

Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.

Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin.

Aliquot and store at -20°C. Minimize freezing and thawing.

Applications Tested

Peptide ELISA: antibody detection limit dilution 1:64000.

Western blot: Approx 100kDa band observed in Human Cerebellum lysates (calculated MW of 99.2kDa according to NP_000035.2). Recommended concentration:0.1-0.5μg/ml. Primary incubation 1 hour at room temperature. **Negative Control:** Human Pancreas lysate. Preliminary testing was unsuccessful on Mouse and Rat for this particular batch. **IHC:** In paraffin embedded Human Prostate shows nuclear staining in the secretory cells of the gland. Recommended concentration: 2-3μg/ml. Cryosections of Mouse Hypothalamus and Amygdala. Recommended dilution range: 1:20,000.

Immunofluorescence: Strong expression of the protein seen in the mitochondria/cytoplasm of MCF7 and U2OS cells. Recommended concentration: 10µg/ml.

Chromatin Immunoprecipitation: A six-fold increased presence of the FKBP5 locus observed when comparing the precipitations using EB06441 with non-specific goat IgG to bring down Androgen Receptor in a chromatin lysate from DHT-stimulated HEC50 cells.

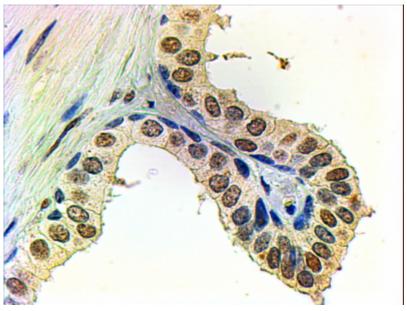
Species Reactivity

Tested: Human, Mouse

Expected from sequence similarity: Human, Mouse, Rat, Dog, Pig, Cow



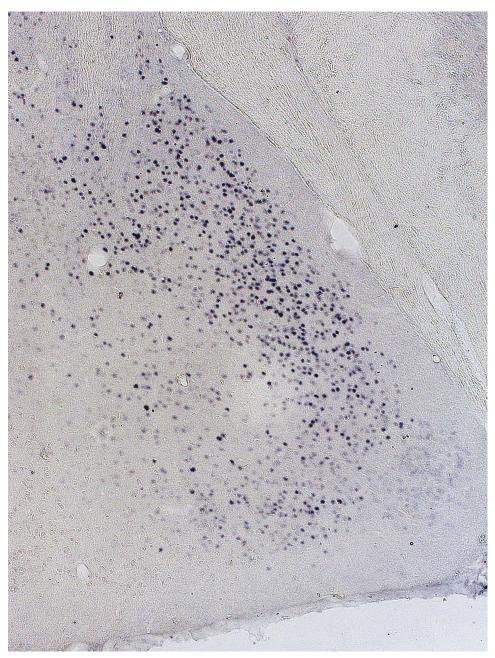
EB06441(0.5μg/ml) staining of Human Cerebellum (A) and (0.1ug/ml) negative control Pancreas (B) lysate (35μg protein in RIPA buffer). Detected by chemiluminescence.



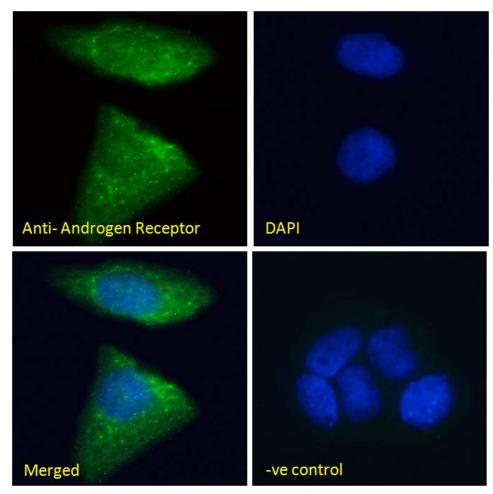
EB06441 (2µg/ml) staining of paraffin embedded Human Prostate. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.



EB06441 Immunostaining of 25µm thick cryosections of PFA-perfused Mouse Hypothalamus, antigen retrieval with citrate buffer Ph 6 at 80C for 30 min, HRP-staining with Ni-DAB after Biotin-SP-antigoat amplification. Data obtained by Drs. Szabolcs Takács and Erik Hrabovszky, Inst, Exp, Med, Budapest, Hungary.



EB06441 Immunostaining of 25µm thick cryosections of PFA-perfused Mouse Amygdala, antigen retrieval with citrate buffer Ph 6 at 80C for 30 min, HRP-staining with Ni-DAB after Biotin-SP-antigoat amplification. Data obtained by Drs. Szabolcs Takács and Erik Hrabovszky, Inst, Exp, Med, Budapest, Hungary.

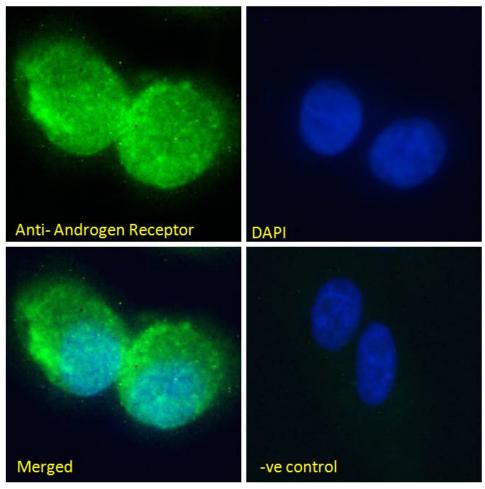


EB06441 Immunofluorescence analysis of paraformaldehyde fixed MCF7 cells, permeabilized with 0.15% Triton.

Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing

Mitochondrial/cytoplasmic staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG

(10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml).

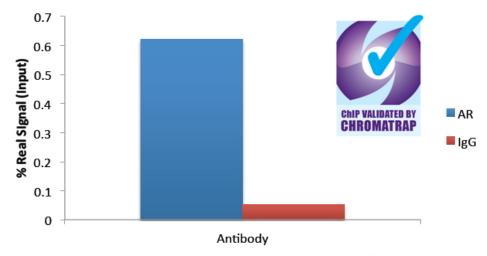


EB06441 Immunofluorescence analysis of paraformaldehyde fixed U2OS cells, permeabilized with 0.15% Triton.

Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing

Mitochondrial/cytoplasmic staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG

(10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml).



ChIP of 2ug EB06441 with 1ug DHT-treated HEC50 chromatin using the Chromatrap® spin column sonication kit (Protein G) measuring FKBP5 enrichment.