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Anti-PRLR Antibody
Catalog # ABO11394

Specification

Anti-PRLR Antibody - Product Information

Application	**WB, IHC-P**
Primary Accession	Q08501
Host	**Rabbit**
Reactivity	**Human, Mouse, Rat**
Clonality	**Polyclonal**
Format	**Lyophilized**

Description
Rabbit IgG polyclonal antibody for Prolactin receptor(PRLR) detection. Tested with WB, IHC-P in Human;Mouse;Rat.

Reconstitution
Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-PRLR Antibody - Additional Information

Gene ID 19116

Other Names
Prolactin receptor, PRL-R, Prlr

Calculated MW
68241 MW KDa

Application Details
Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, Rat, Mouse, By Heat

Western blot, 0.1-0.5 µg/ml, Human, Mouse, Rat

Subcellular Localization
Membrane; Single-pass type I membrane protein.

Protein Name
Prolactin receptor

Contents
Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3.

Immunogen
A synthetic peptide corresponding to a sequence at the C-terminus of mouse PRLR (591-605aa QLGRLDYLDPTCFMH), identical to the related rat sequence, and different from the related human sequence by three amino acids.

Purification
Immunogen affinity purified.

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Cross Reactivity
No cross reactivity with other proteins

Storage

At -20˚C for one year. After r˚Constitution, at 4˚C for one month. It˚Can also be aliquotted and stored frozen at -20˚C for a longer time.Avoid repeated freezing and thawing.

Sequence Similarities
Belongs to the type I cytokine receptor family. Type 1 subfamily.

Anti-PRLR Antibody - Protein Information

Name Prlr

Function
This is a receptor for the anterior pituitary hormone prolactin.

Cellular Location
Membrane; Single-pass type I membrane protein.

Anti-PRLR Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-PRLR Antibody - Images

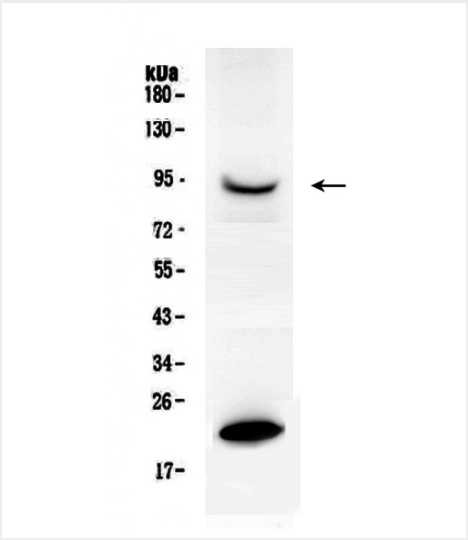

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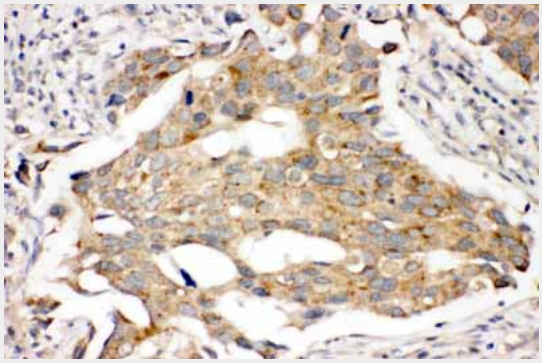
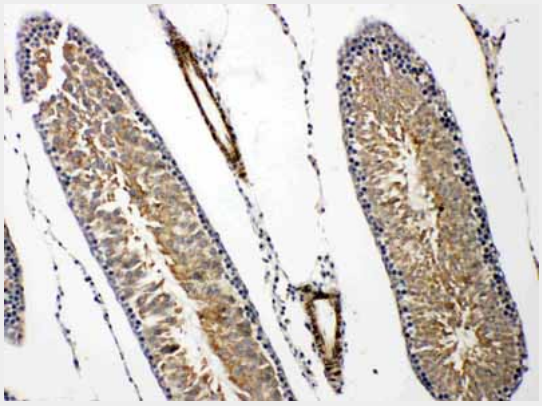
Figure 1. Western blot analysis of PRLR using anti- PRLR antibody (ABO11394). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions. Lane 1: rat PC-12 whole cell lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti- PRLR antigen affinity purified polyclonal antibody (Catalog # ABO11394) at 0.5 Î¼g/mL overnight at 4Â°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for PRLR at approximately 90KD. The expected band size for PRLR is at 70KD.



Anti-PRLR antibody, ABO11394, IHC(P)IHC(P): Human Mammary Cancer Tissue



Anti-PRLR antibody, ABO11394, IHC(P)IHC(P): Rat Testis Tissue

Anti-PRLR Antibody - Background

PRLR(Prolactin Receptor), is a cytokine receptor. By somatic cell hybrid analysis and by in situ hybridization, Arden et al.(1989, 1990) demonstrated that the prolactin receptor gene resides in the same chromosomal region as the growth hormone receptor gene, which has been mapped to 5p13-p12. Cunningham et al.(1990) demonstrated that zinc greatly increases the affinity of GH for the extracellular binding domain of PRLR, although it is not required for binding of GH to the growth hormone receptor or for binding of prolactin to the prolactin receptor. By mutational analysis, they showed that a cluster of 3 residues(histidine-18, histidine-21, and glutamic acid-174) in GH and histidine-188 in PRLR(conserved in all PRL receptors but not GH receptors) are likely zinc-ion ligands.