

### **Anti-PRLR Picoband Antibody**

Catalog # ABO12468

#### **Specification**

## **Anti-PRLR Picoband Antibody - Product Information**

Application WB
Primary Accession P16471
Host Rabbit
Reactivity Human
Clonality Polyclonal
Format Lyophilized

**Description** 

Rabbit IgG polyclonal antibody for Prolactin receptor(PRLR) detection. Tested with WB in Human.

#### Reconstitution

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

# **Anti-PRLR Picoband Antibody - Additional Information**

**Gene ID 5618** 

**Other Names** 

Prolactin receptor, PRL-R, PRLR

Calculated MW 69506 MW KDa

**Application Details** 

Western blot, 0.1-0.5 μg/ml, Human<br>

**Subcellular Localization** 

Membrane; Single-pass type I membrane protein.

**Tissue Specificity** 

Expressed in breast, placenta, kidney, liver and pancreas. .

**Protein Name** 

Prolactin receptor

Contents

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

**Immunogen** 

A synthetic peptide corresponding to a sequence at the C-terminus of human PRLR (565-605aa HAKNVACFEESAKEAPPSLEQNQAEKALANFTATSSKCRLQ), different from the related mouse sequence by eleven amino acids, and from the related rat sequence by fourteen amino aci

**Purification** 

Immunogen affinity purified.



**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.

# **Anti-PRLR Picoband Antibody - Protein Information**

#### Name PRLR

#### **Function**

This is a receptor for the anterior pituitary hormone prolactin (PRL). Acts as a prosurvival factor for spermatozoa by inhibiting sperm capacitation through suppression of SRC kinase activation and stimulation of AKT. Isoform 4 is unable to transduce prolactin signaling. Isoform 6 is unable to transduce prolactin signaling.

### **Cellular Location**

Membrane; Single-pass type I membrane protein

#### **Tissue Location**

Expressed in breast, placenta, kidney, liver and pancreas.

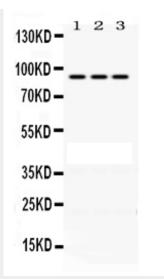
# **Anti-PRLR Picoband Antibody - Protocols**

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 Picoband Antibody - Images





Anti-PRLR Picoband antibody, ABO12468, Western blottingAll lanes: Anti PRLR (ABO12468) at 0.5ug/mlLane 1: HELA Whole Cell Lysate at 40ugLane 2: SGC Whole Cell Lysate at 40ugLane 3: SW620 Whole Cell Lysate at 40ugPredicted bind size: 90KDObserved bind size: 90KD

# **Anti-PRLR Picoband 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.