

**Anti-PRLR Picoband Antibody**  
Catalog # ABO12468

**Specification**

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

Application	<b>WB</b>
Primary Accession	<a href="#">P16471</a>
Host	<b>Rabbit</b>
Reactivity	<b>Human</b>
Clonality	<b>Polyclonal</b>
Format	<b>Lyophilized</b>

**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 Na<sub>2</sub>HPO<sub>4</sub>, 0.05mg Na<sub>3</sub>.

**Immunogen**

A synthetic peptide corresponding to a sequence at the C-terminus of human PRLR (565-605aa HAKNVACFEESAKEAPPSLEQNQAEEKALANFTATSSKCRLQ), 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 reconstitution, 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

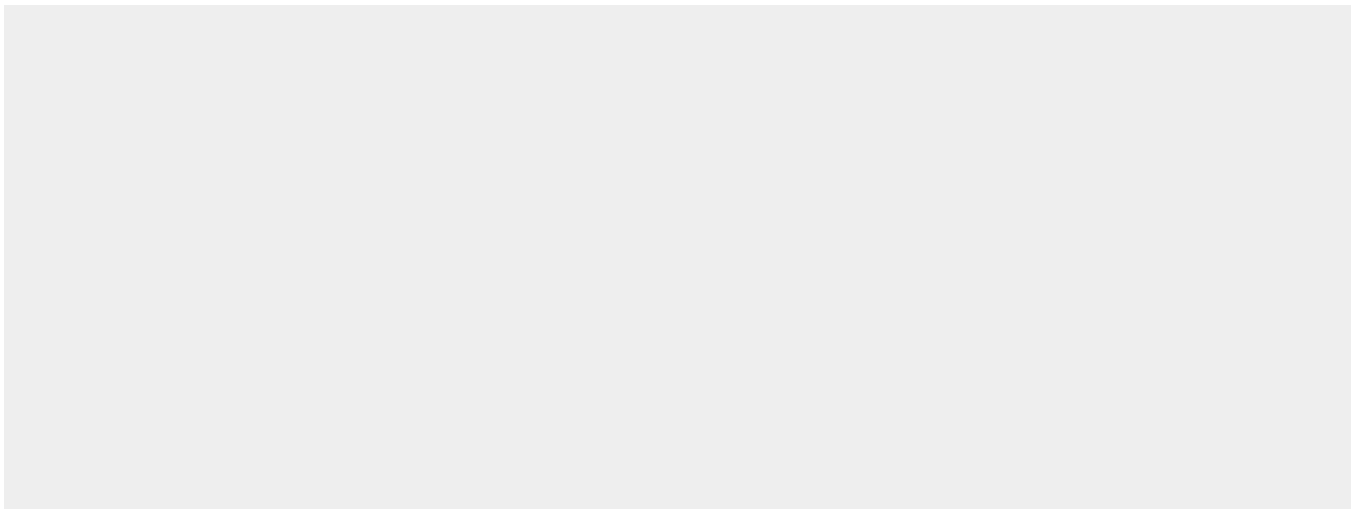
Expressed in breast, placenta, kidney, liver and pancreas.

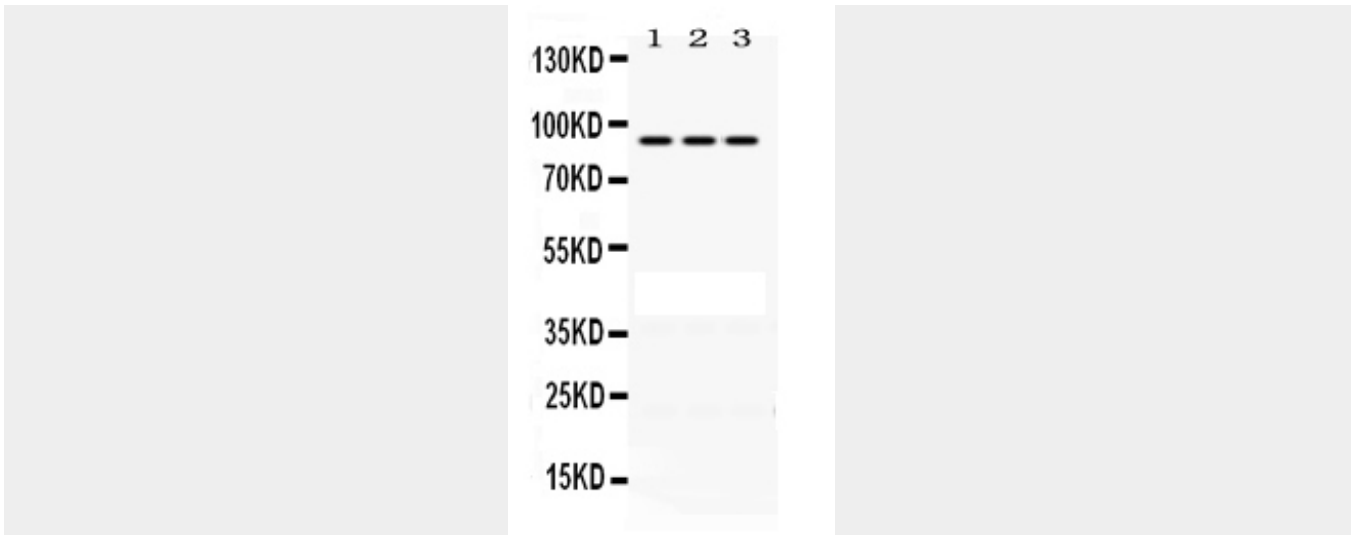
## Anti-PRLR Picoband Antibody - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## Anti-PRLR Picoband Antibody - Images





Anti-PRLR Picoband antibody, ABO12468, Western blotting All lanes: Anti PRLR (ABO12468) at 0.5ug/ml Lane 1: HELA Whole Cell Lysate at 40ug Lane 2: SGC Whole Cell Lysate at 40ug Lane 3: SW620 Whole Cell Lysate at 40ug Predicted bind size: 90KD Observed 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.