# Overview

**Product name**: Anti-Prolactin Receptor / PRL-R antibody [EPR7184(2)]

**Description**: Rabbit monoclonal [EPR7184(2)] to Prolactin Receptor / PRL-R

**Host species**: Rabbit

**Tested applications**
- **Suitable for**: WB, IHC-P, ICC/IF
- **Unsuitable for**: Flow Cyt or IP

**Species reactivity**: Reacts with: Mouse, Rat, Human

**Immunogen**: Synthetic peptide within Human Prolactin Receptor/ PRL-R aa 50-150 (Cysteine residue). The exact sequence is proprietary.

**Database link**: P16471

**Positive control**: T47-D, (B) A431 and (C) Jurkat cell lysates, Human breast carcinoma & kidney tissue, Jurkat cells

**General notes**: Previously labelled as Prolactin Receptor.

Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents.

We are constantly working hard to ensure we provide our customers with best in class antibodies. As a result of this work we are pleased to now offer this antibody in purified format. We are in the process of updating our datasheets. The purified format is designated 'PUR' on our product labels. If you have any questions regarding this update, please contact our Scientific Support team.

This product is a recombinant rabbit monoclonal antibody.

## Properties

<table>
<thead>
<tr>
<th>Form</th>
<th>Liquid</th>
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<tbody>
<tr>
<td><strong>Storage instructions</strong></td>
<td>Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.</td>
</tr>
</tbody>
</table>

**Storage buffer**: Preservative: 0.01% Sodium azide

Constituents: 59% PBS, 40% Glycerol, 0.5% BSA
Purity
Protein A purified

Clonality
Monoclonal

Clone number
EPR7184(2)

Isotype
IgG

Applications

Our Abpromise guarantee covers the use of ab170935 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<table>
<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
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</thead>
<tbody>
<tr>
<td>WB</td>
<td></td>
<td>1/1000 - 1/5000. Predicted molecular weight: 70 kDa.</td>
</tr>
<tr>
<td>IHC-P</td>
<td>★★★★☆</td>
<td>1/50 - 1/100. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol. ab170935 shows background nuclear staining on mouse colon, pancreas and lung.</td>
</tr>
<tr>
<td>ICC/IF</td>
<td></td>
<td>1/100 - 1/250.</td>
</tr>
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</table>

Application notes
Is unsuitable for Flow Cyt or IP.

Target

Function
This is a receptor for the anterior pituitary hormone prolactin (PRL). Isoform 4 is unable to transduce prolactin signaling. Isoform 6 is unable to transduce prolactin signaling.

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

Sequence similarities
Belongs to the type I cytokine receptor family. Type 1 subfamily. Contains 2 fibronectin type-III domains.

Domain
The WSXWS motif appears to be necessary for proper protein folding and thereby efficient intracellular transport and cell-surface receptor binding. The box 1 motif is required for JAK interaction and/or activation.

Cellular localization
Secreted and Membrane.

Images
Immunohistochemical analysis of paraffin-embedded breast carcinoma tissue labeling Prolactin Receptor / PRL-R with ab170935 at 1/50 dilution.

All lanes: Anti-Prolactin Receptor / PRL-R antibody [EPR7184(2)] (ab170935) at 1/1000 dilution

Lane 1: T47-D cell lysates
Lane 2: A431 cell lysates
Lane 3: Jurkat cell lysates

Lysates/proteins at 10 µg per lane.

Predicted band size: 70 kDa

Immunohistochemical analysis of paraffin-embedded kidney tissue labeling Prolactin Receptor / PRL-R with ab170935 at 1/50 dilution.
Immunofluorescence analysis of Jurkat cells labeling Prolactin Receptor / PRL-R with ab170935 at 1/100 dilution.

Please note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

Our Abpromise to you: Quality guaranteed and expert technical support

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- Response to your inquiry within 24 hours
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- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

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