

Product datasheet

Anti-Prolactin Receptor/PRL-R antibody [T6] ab2773

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Overview

Product name	Anti-Prolactin Receptor/PRL-R antibody [T6]
Description	Mouse monoclonal [T6] to Prolactin Receptor/PRL-R
Host species	Mouse
Specificity	Detects Prolactin Receptor/PRL-R in rat tissues. This antibody does not cross-react with Growth Hormone (GH) receptor. By Western blot, this antibody detects an ~42 kDa protein representing Prolactin Receptor/PRL-R in NB2 cell lysate. Immunohistochemical staining of Prolactin Receptor/PRL-R in NB2 cells yields a staining pattern consistent with cytoplasmic vesicular staining. This antibody has also been used to inhibit the binding of prolactin to Prolactin Receptor/PRL-R in vitro.
Tested applications	Suitable for: IHC-P, ICC, IHC-Fr, WB, IP, Flow Cyt, Inhibition Assay, ICC/IF
Species reactivity	Reacts with: Mouse, Rat, Sheep, Human
Immunogen	Other Immunogen Type corresponding to Rat Prolactin Receptor/PRL-R. Purified rat liver PRL receptor.
Positive control	WB and ICC: NB2 cells
General notes	Previously labelled as Prolactin Receptor.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	Constituent: PBS
Purity	Protein A purified
Primary antibody notes	Prolactin (PRL) is a hormone involved in a variety of important functions including ion transport and osmoregulation, stimulation of milk, protein synthesis as well as the regulation of numerous reproductive functions. PRL exerts its influence on different cell types through a signal transduction pathway which begins with the binding of the hormone to a transmembrane PRL receptor. Immunoreactive PRL receptor, a member of the cytokine receptor family, varies in size (short and long forms) with tissue source and species, from ~40 kDa to 100 kDa. The PRL receptor consists of at least three separate domains: an extracellular region with 5 cysteines which contains the prolactin binding site, a single transmembrane domain and a cytoplasmic region, the length of which appears to influence ligand binding and regulate cellular function.

Clonality	Monoclonal
Clone number	T6
Isotype	IgG2a

Applications

Our [Abpromise guarantee](#) covers the use of **ab2773** in the following tested applications.

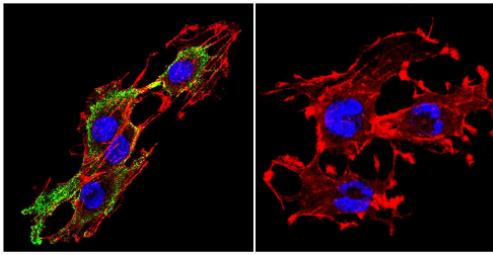
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		1/25 - 1/200.
ICC		Use a concentration of 5 µg/ml.
IHC-Fr		Use at an assay dependent concentration.
WB	★☆☆☆☆	Use a concentration of 1 µg/ml. Detects a band of approximately 42 kDa.
IP		Use at an assay dependent concentration.
Flow Cyt		Use at an assay dependent concentration. ab170191 - Mouse monoclonal IgG2a, is suitable for use as an isotype control with this antibody.
Inhibition Assay		Use at an assay dependent concentration.
ICC/IF		1/200.

Target

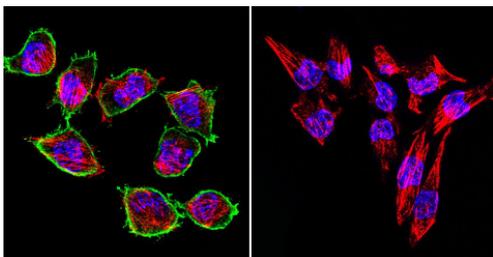
Function	This is a receptor for the anterior pituitary hormone prolactin (PRL). Isoform 4 is unable to transduce prolactin signaling. Isoform 6 is unable to transduce prolactin signaling.
Tissue specificity	Expressed in breast, placenta, kidney, liver and pancreas.
Sequence similarities	Belongs to the 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



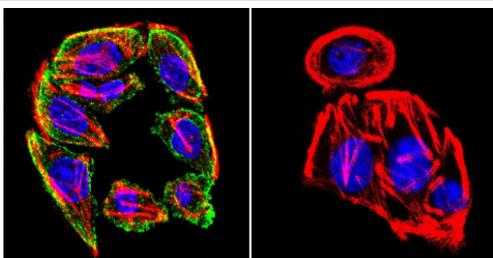
Immunocytochemistry/ Immunofluorescence - Anti-Prolactin Receptor/PRL-R antibody [T6] (ab2773)

Immunocytochemistry/Immunofluorescence analysis of Prolactin Receptor/PRL-R in C6 cells. Cells were grown on chamber slides and fixed with formaldehyde prior to staining. Cells were incubated without (control) or with ab2773 (1:200) overnight at 4°C, washed with PBS and incubated with a DyLight-488 conjugated secondary antibody. Prolactin Receptor/PRL-R staining (green), F-Actin staining with Phalloidin (red) and nuclei with DAPI (blue) is shown. Images were taken at 60X magnification.



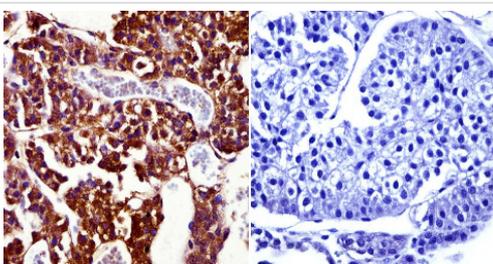
Immunocytochemistry/ Immunofluorescence - Anti-Prolactin Receptor/PRL-R antibody [T6] (ab2773)

Immunocytochemistry/Immunofluorescence analysis of Prolactin Receptor/PRL-R in H-4-II-E cells. Cells were grown on chamber slides and fixed with formaldehyde prior to staining. Cells were incubated without (control) or with ab2773 (1:200) overnight at 4°C, washed with PBS and incubated with a DyLight-488 conjugated secondary antibody. Prolactin Receptor/PRL-R staining (green), F-Actin staining with Phalloidin (red) and nuclei with DAPI (blue) is shown. Images were taken at 60X magnification.



Immunocytochemistry/ Immunofluorescence - Anti-Prolactin Receptor/PRL-R antibody [T6] (ab2773)

Immunocytochemistry/Immunofluorescence analysis of Prolactin Receptor/PRL-R in SW480 cells. Cells were grown on chamber slides and fixed with formaldehyde prior to staining. Cells were incubated without (control) or with ab2773 (1:200) overnight at 4°C, washed with PBS and incubated with a DyLight-488 conjugated secondary antibody. Prolactin Receptor/PRL-R staining (green), F-Actin staining with Phalloidin (red) and nuclei with DAPI (blue) is shown. Images were taken at 60X magnification.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Prolactin Receptor/PRL-R antibody [T6] (ab2773)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) was performed on normal biopsies of deparaffinized rat pituitary gland tissue. To expose target proteins, heat induced antigen retrieval was performed using 10mM sodium citrate (pH6.0) buffer, microwaved for 8-15 minutes. Tissues were blocked in 3% BSA-PBS for 30 minutes at room temperature and incubated with ab2773 (1:50) or without primary antibody (negative control) overnight at 4°C in a humidified chamber. Tissues were washed with PBST and endogenous peroxidase activity was quenched with a peroxidase suppressor. Detection was performed using a biotin-conjugated secondary antibody and SA-HRP, followed by

colorimetric detection using DAB. Tissues were counterstained with hematoxylin and prepped for mounting.

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