

## Anti-TSH Receptor/TSHR Antibody Picoband®

Catalog Number: A00576-1

### About TSHR

TSHR (Thyroid-Stimulating Hormone Receptor), also called LGR3, is mapped to 14q31.1. The protein encoded by this gene is a membrane protein and a major controller of thyroid cell metabolism. The encoded protein is a receptor for thyrothropin and thyrostimulin, and its activity is mediated by adenylate cyclase. Defects in this gene are a cause of several types of hyperthyroidism. Three transcript variants encoding different isoforms have been found for this gene.

### Overview

|                      |  |
|----------------------|--|
| Product Name         | Anti-TSH Receptor/TSHR Antibody Picoband®  |
| Reactive Species     | Human, Mouse, Rat  |
| Description          | Boster Bio Anti-TSH Receptor/TSHR Antibody Picoband® catalog # A00576-1. Tested in WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance. |
| Application          | WB   |
| Clonality            | Polyclonal   |
| Formulation          | Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na <sub>2</sub> HPO <sub>4</sub> , 0.05mg NaN <sub>3</sub> .   |
| Storage Instructions | Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.  |
| Host                 | Rabbit   |
| Uniprot ID           | P16473   |

### Technical Details

|                               |   |
|-------------------------------|---|
| Immunogen                     | A synthetic peptide corresponding to a sequence at the N-terminus of human TSH Receptor, different from the related mouse sequence by two amino acids, and from the related rat sequence by one amino acid. |
| Recommended Detection Systems | Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.   |
| Cross Reactivity              | No cross-reactivity with other proteins.  |
| Isotype                       | Rabbit IgG  |
| Form                          | Lyophilized   |

|                     |   |
|---------------------|---|
| Concentration       | Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.   |
| Purification        | Immunogen affinity purified.  |
| Suggested Dilutions | <p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:<br/>Western blot, 0.1-0.5ug/ml, Mouse, Rat, Human</p> |

## Anti-TSH Receptor/TSHR Antibody Picoband® (A00576-1) Images

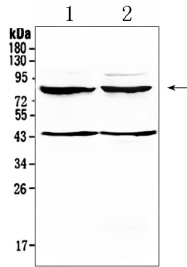


Figure 1. Western blot analysis of TSH Receptor using anti-TSH Receptor antibody (A00576-1). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions.  
Lane 1: rat brain tissue lysates,  
Lane 2: mouse brain tissue 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-TSH Receptor antigen affinity purified polyclonal antibody (Catalog # A00576-1) at 0.5 ug/mL overnight at 4°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 (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for TSH Receptor at approximately 86KD. The expected band size for TSH Receptor is at 86KD.

## 1 Publications Citing This Product

1. PubMed ID: 10.1111/asj.12883, Effects of hyper<sup>2</sup> and hypothyroidism on the development and proliferation of testicular cells in prepubertal rats

Visit [bosterbio.com/anti-tsh-receptor-picoband-trade-antibody-a00576-1-boster.html](http://bosterbio.com/anti-tsh-receptor-picoband-trade-antibody-a00576-1-boster.html) to see all 1 publications.

## Submit a product review to Biocompare.com

Submit a review of this product to Biocompare.com to receive a \$20 Amazon.com giftcard! Your reviews help your fellow scientists make the right decisions. Thank you for your contribution.



Anti-TSH Receptor/TSHR Antibody