BOSTER BIOLOGICAL TECHNOLOGY
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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.

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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 IHC, 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	IHC, WB
Clonality	Polyclonal
Formulation	Each vial contains 4 mg Trehalose, 0.9 mg NaCl and 0.2 mg Na2HPO4.
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.

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Recommended Detection Systems	Boster recommends ECL Plus Western Blotting Substrate (Catalog # AR1196-200) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P).
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	Western blot, 0.1-0.5ug/ml, Human, Mouse, Rat Immunohistochemistry (Paraffin-embedded Section), 2-5ug/ml, Human

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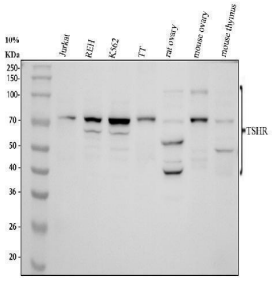
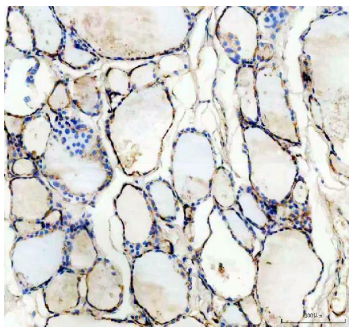
Anti-TSH Receptor/TSHR Antibody Picoband® (A00576-1) Images



Western blot analysis of TSH Receptor using anti-TSH Receptor antibody (A00576-1). Electrophoresis was performed on a 10% SDS-PAGE gel at 80V (Stacking gel) / 120V (Resolving gel) for 2 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human Jurkat whole cell lysates, Lane 2: human REH whole cell lysates, Lane 3: human K562 whole cell lysates, Lane 4: human TT whole cell lysates, Lane 5: rat ovary tissue lysates, Lane 6: mouse ovary tissue lysates, Lane 7: mouse thymus tissue lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA 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 (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 1:5000 for 1.5 hour at RT. The signal is developed using an ECL Plus Western Blotting Substrate (Catalog # AR1196-200) with Tanon 5200 system. A specific band was detected for TSH Receptor at approximately 40, 70-80, 110 kDa. The expected band size for TSH Receptor is at 87 kDa.



IHC analysis of TSH Receptor using anti-TSH Receptor antibody (A00576-1). TSH Receptor was detected in a paraffin-embedded section of human thyroid cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-TSH Receptor Antibody (A00576-1) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.

1 Publications Citing This Product

1. PubMed ID: 10.1111/asj.12883, Effects of hyper- 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 to see all 1 publications.

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