

Anti-Growth Hormone/GH1 Antibody Picoband®

Catalog Number: RP1007

About Gh1

Growth Hormone (GH) is mapped to 17q22-q24. Human growth hormone has a molecular mass of 22,005 and contains 191 amino acid residues with 2 disulfide bridges. Rat GH shares 98% amino acid sequence homology with mouse. It binds two receptor molecules and thereby induces signal transduction through receptor dimerization. At high concentrations, GH acts as an antagonist because of a large difference in affinities at the respective binding sites.

Overview

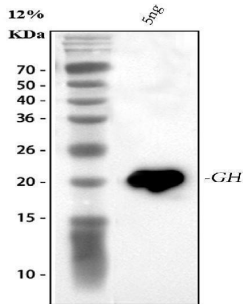
Product Name	Anti-Growth Hormone/GH1 Antibody Picoband®
Reactive Species	Rat
Description	Boster Bio Anti-Growth Hormone/GH1 Antibody catalog # RP1007. Tested in ELISA, IHC, WB applications. This antibody reacts with Rat. The brand Picoband indicates this is a premium antibody that guarantees superior 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	ELISA, IHC, WB
Clonality	Polyclonal
Formulation	Each vial contains 4 mg Trehalose, 0.9 mg NaCl and 0.2 mg Na ₂ HPO ₄ .
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	P01244

Technical Details

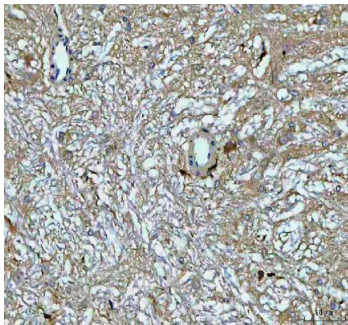
Immunogen	E. coli-derived rat GH recombinant protein (Position: F27-F216).
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P).
Cross Reactivity	No 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, Rat Immunohistochemistry (Paraffin-embedded Section), 2-5ug/ml, Rat ELISA, 0.1-0.5ug/ml, -

Anti-Growth Hormone/GH1 Antibody Picoband® (RP1007) Images



Western blot analysis of GH1 using anti-GH1 antibody (RP1007). 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 5 ng of sample under reducing conditions. Lane 1: rat GH1 recombinant protein. 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-GH1 antigen affinity purified polyclonal antibody (Catalog # RP1007) 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 Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for GH1 at approximately 22 kDa.



IHC analysis of GH1 using antiGH1 antibody (RP1007). GH1 was detected in a paraffin-embedded section of rat brain 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-GH1 Antibody (RP1007) 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.

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