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antibody and ELISA experts

BOSTER BIOLOGICAL TECHNOLOGY
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# Anti-GH1 Antibody Picoband™

**Catalog Number:** A00851-2

## 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

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| Product Name | Anti-GH1 Antibody Picoband™ |
| Reactive Species | Human, Mouse, Rat |
| Description | Boster Bio Anti-GH1 Antibody Picoband™ catalog # A00851-2. Tested in WB, FCM, ELISA applications. This antibody reacts with Human, Mouse, Rat. |
| Application | ELISA, Flow Cytometry, WB |
| Clonality | Polyclonal |
| Formulation | Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4. |
| Storage Instructions | 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 freezing and thawing. |
| Host | Rabbit |
| Uniprot ID | P01241 |

## Technical Details

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| Immunogen | E.coli-derived human GH1 recombinant protein (Position: Q22-F217). |
| Recommended Detection Systems | Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot. |
| Form | Lyophilized |
| Concentration | Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml. |
| Purification | Immunogen affinity purified. |
| Suggested Dilutions | Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.<br>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.<br>Some PubMed article(s) citing the expression level of this target are as follows: |

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|---|---|
| | Boster Bio's internal QC testing used:<br>Western blot, 0.25-0.5 ug/ml, Human, Mouse, Rat<br>Flow Cytometry (Fixed), 1-3 ug/1x$10^6$ cells, Human<br>ELISA, 0.1-0.5 ug/ml, Human |

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# Anti-GH1 Antibody Picoband™ (A00851-2) Images

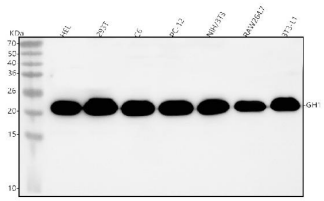

Figure 1. Western blot analysis of GH1 using anti-GH1 antibody (A00851-2).
Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: human HEL whole cell lysates,
Lane 2: human 293T whole cell lysates,
Lane 3: rat C6 whole cell lysates,
Lane 4: rat PC-12 whole cell lysates,
Lane 5: mouse NIH/3T3 whole cell lysates,
Lane 6: mouse RAW264.7 whole cell lysates,
Lane 7: mouse 3T3-L1 whole cell 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-GH1 antigen affinity purified polyclonal antibody (Catalog # A00851-2) 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. The expected band size for GH1 is at 25 kDa.

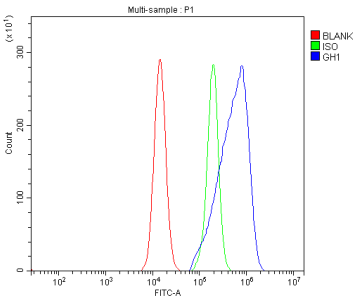


Figure 2. Flow Cytometry analysis of HEL cells using anti-GH1 antibody (A00851-2).
Overlay histogram showing HEL cells stained with A00851-2 (Blue line). The cells were fixed with 4% paraformaldehyde and blocked with 10% normal goat serum. And then incubated with rabbit anti-GH1 Antibody (A00851-2, 1 ug/1x$10^6$ cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127, 5-10 ug/1x$10^6$ cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x$10^6$) used under the same conditions. Unlabelled sample (Red line) was also used as a control.