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antibody and ELISA experts

BOSTER BIOLOGICAL TECHNOLOGY
3942 B Valley Ave, Pleasanton, CA 94566
888-466-3604 | support@bosterbio.com | www.bosterbio.com

Anti-Growth hormone receptor/GHR Picoband™ Antibody

Catalog Number: A00698-1

About Ghr

Growth hormone receptor is a protein that in humans is encoded by the GHR gene. It is mapped to 15 A1; 15 1.84 cM. This gene encodes a member of the type I cytokine receptor family, which is a transmembrane receptor for growth hormone. Binding of growth hormone to the receptor leads to receptor dimerization and the activation of an intra- and intercellular signal transduction pathway leading to growth. Mutations in this gene have been associated with Laron syndrome, also known as the growth hormone insensitivity syndrome (GHIS), a disorder characterized by short stature. In humans and rabbits, but not rodents, growth hormone binding protein (GHBP) is generated by proteolytic cleavage of the extracellular ligand-binding domain from the mature growth hormone receptor protein. Multiple alternatively spliced transcript variants have been found for this gene.

Overview

Product Name	Anti-Growth hormone receptor/GHR Picoband™ Antibody
Reactive Species	Mouse, Rat
Description	Boster Bio Anti-Growth hormone receptor/GHR Picoband™ Antibody catalog # A00698-1. Tested in ELISA, Flow Cytometry, WB applications. This antibody reacts with Mouse, Rat.
Application	ELISA, Flow Cytometry, WB
Clonality	Polyclonal
Formulation	Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na_2HPO_4, 0.05mg NaN_3.
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	P16882

Technical Details

Immunogen	E.coli-derived mouse Growth hormone receptor/GHR recombinant protein (Position: T25-Q650).
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 □g/ml.

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Purification	Immunogen affinity purified.
Suggested Dilutions	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit. If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples. Some PubMed article(s) citing the expression level of this target are as follows: Boster Bio's internal QC testing used Western blot, 0.25-0.5μg/ml, Mouse, Rat Flow Cytometry, 1-3μg/1x10^6 cells, Mouse, Rat Direct ELISA, 0.1-0.5μg/ml, Mouse For protocols, please visit https://www.bosterbio.com/protocol-and-troubleshooting/

Anti-Growth hormone receptor/GHR Picoband™ Antibody (A00698-1) Images

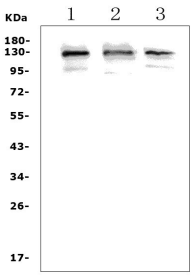

Figure 1. Western blot analysis of Ghr using anti-Ghr antibody (A00698-1).
Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions.
Lane 1: rat C6 whole cell lysates,
Lane 2: mouse RAW246.7 whole cell lysates,
Lane 3: mouse Neuro-2a whole cell 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-Ghr antigen affinity purified polyclonal antibody (Catalog # A00698-1) 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 Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for Ghr at approximately 130KD. The expected band size for Ghr is at 72KD.

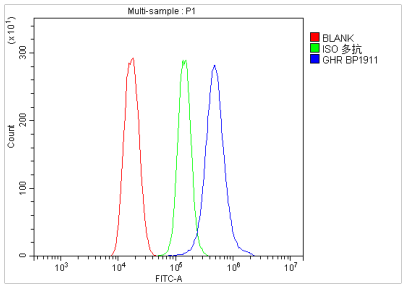

Figure 2. Flow Cytometry analysis of HEPA1-6 cells using anti-Ghr antibody (A00698-1).
Overlay histogram showing HEPA1-6 cells stained with A00698-1 (Blue line).The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-Ghr Antibody (A00698-1, 1ug/1x10^6 cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127, 5-10ug/1x10^6 cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x10^6) used under the same conditions. Unlabelled sample (Red line) was also used as a control.

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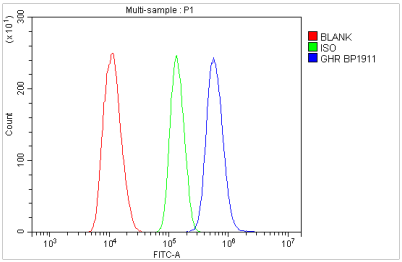

Figure 3. Flow Cytometry analysis of NRK cells using anti-Ghr antibody (A00698-1).
Overlay histogram showing NRK cells stained with A00698-1 (Blue line).The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-Ghr Antibody (A00698-1, 1ug/1x10^6 cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127, 5-10ug/1x10^6 cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x10^6) used under the same conditions. Unlabelled sample (Red line) was also used as a control.

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