

## Anti-Growth hormone receptor/GHR Antibody Picoband®

Catalog Number: PA1726

### About Ghr

The GHR locus to human chromosome 5p13.1-p12 and to mouse chromosome 15. Additionally, its gene has 9 exons that encode the receptor and several additional exons in the 5-prime untranslated region. The coding exons span at least 87 kb. GHR consists of an extracellular domain of 246 amino acids, a single transmembrane domain, and a cytoplasmic domain. Exons 3 to 7 encode the extracellular domain. There are 2 isoforms of GHR in humans, generated by retention or exclusion of exon 3 during splicing: a full-length isoform and an isoform that lacks exon 3 (d3GHR). Furthermore, the two isoforms of GHR are expressed in the placenta and appeared to be due to alternative splicing. In cirrhosis, there is a state of acquired GH resistance, as defined by high circulating GH levels with low IGF1 levels. Moreover, Mutations in the GHR gene have been demonstrated as the cause of Laron syndrome, also known as the growth hormone insensitivity syndrome (GHIS).

### Overview

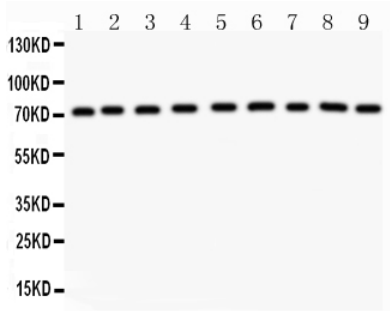
Product Name	Anti-Growth hormone receptor/GHR Antibody Picoband®
Reactive Species	Mouse, Rat
Description	Boster Bio Anti-Growth hormone receptor/GHR Antibody catalog # PA1726. Tested in WB applications. This antibody reacts with Mouse, Rat. The brand Picoband indicates this is a premium antibody that 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 antibody formulated with stabilizing components, 0.9mg NaCl, 0.2mg Na <sub>2</sub> HPO <sub>4</sub> , 0.05mg Thimerosal, 0.05mg NaN <sub>3</sub> . *This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
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	A synthetic peptide corresponding to a sequence in the middle region of mouse Growth hormone receptor, identical to the related rat sequence.
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	Western blot, 0.1-0.5ug/ml, Mouse, Rat

## Anti-Growth hormone receptor/GHR Antibody Picoband® (PA1726) Images



Anti-GHR antibody, PA1726, Western blotting  
All lanes: Anti GHR (PA1726) at 0.5ug/ml  
Lane 1: Rat Liver Tissue Lysate at 50ug  
Lane 2: Rat Kidney Tissue Lysate at 50ug  
Lane 3: Rat Spleen Tissue Lysate at 50ug  
Lane 4: Rat Intestine Tissue Lysate at 50ug  
Lane 5: Mouse Spleen Tissue Lysate at 50ug  
Lane 6: Mouse Testis Tissue Lysate at 50ug  
Lane 7: Mouse Liver Tissue Lysate at 50ug  
Lane 8: Mouse Kidney Tissue Lysate at 50ug  
Lane 9: Mouse Intestine Tissue Lysate at 50ug  
Predicted bind size: 72KD  
Observed bind size: 72KD

## 1 Publications Citing This Product

1. PubMed ID: 10.1126/sciadv.abg6005, Mesenchymal growth hormone receptor deficiency leads to failure of alveolar progenitor cell function and severe pulmonary fibrosis

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