bs-0654R **[Primary Antibody]**

Growth hormone receptor Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 2690 **SWISS:** P10912

Target: Growth hormone receptor

Immunogen: KLH conjugated synthetic peptide derived from human GHR: 101-200/451. < Cytoplasmic >

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: 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.[provided by RefSeq, Jun 2011].

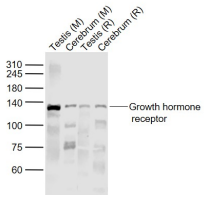
Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)
Flow-Cyt (1μg/Test)

Reactivity: Human, Mouse, Rat (predicted: Pig, Sheep, Cow, Chicken, Dog)

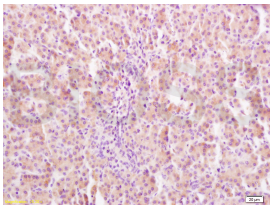
Predicted MW.: 68 kDa

Subcellular Location: Cell membrane

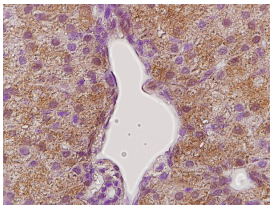
VALIDATION IMAGES



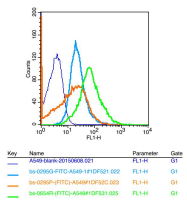
Sample: Lane 1: Testis (Mouse) Lysate at 40 ug Lane 2: Cerebrum (Mouse) Lysate at 40 ug Lane 3: Testis (Rat) Lysate at 40 ug Lane 4: Cerebrum (Rat) Lysate at 40 ug Primary: Anti-Growth hormone receptor (bs-0654R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 130/110 kD Observed band size: 130 kD



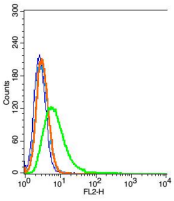
Tissue/cell: rat liver tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min; Incubation: Anti-GHR Polyclonal Antibody, Unconjugated(bs-0654R) 1:400, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



This image was generously provided by Brandon Menzies, PhD, from The University of Melbourne. Paraffin embedded tammar wallaby (Macropus eugenii) liver labeled with Rabbit Anti-GHR Polyclonal Antibody, Unconjugated (bs-0654R) at 1:300 followed by conjugation to a secondary antibody and staining.



Positive control: A549 cells Concebtration:



Blank control: A549(blue), the cells were fixed

1µg/10^6 cells Incubation conditions: Avoid light , 30 minutes on the ice.

with 2% paraformaldehyde (10 min) . Isotype Control Antibody: Rabbit IgG(orange) ; Secondary Antibody: Goat anti-rabbit IgG-FITC(white blue), Dilution: 1:100 in 1 X PBS containing 0.5% BSA ; Primary Antibody Dilution: 5µl in 100 µL1X PBS containing 0.5% BSA(green).

SELECTED CITATIONS

- **[IF=8.4]** Hu Bowen. et al. Local GHR roles in regulation of mitochondrial function through mitochondrial biogenesis during myoblast differentiation. CELL COMMUN SIGNAL. 2023 Dec;21(1):1-18 WB ;Chicken. 37337300
- **[IF=5.738]** Ahmed O. Kaseb. et al. Blockade of growth hormone receptor signaling by using pegvisomant: A functional therapeutic strategy in hepatocellular carcinoma.. FRONT ONCOL. 2022 Oct;12:986305-986305 IHC,IF ;Mouse, Human. 36276070
- **[IF=3.8]** Changbin Zhao. et al. METTL3-dependent m6A modification of GHR mRNA regulates mitochondrial function through mitochondrial biogenesis during myoblast differentiation. POULTRY SCI. 2025 Apr;:105216 WB ;Chicken. 40344709
- **[IF=4.24]** Hetz, Jennifer A., et al. "Growth axis maturation is linked to nutrition, growth and developmental rate." Molecular and Cellular Endocrinology (2015). WB ;="". 25896544
- **[IF=4.12]** Cui et al. Generation of a miniature pig disease model for human Laron syndrome. (2015) Sci.Rep. 5:15603 WB ;Porcine. 26511035