# Rabbit GHRH Polyclonal Antibody | anti-GHRH antibody

Anti-GHRH Antibody Picoband

| CATALOG # | HOST | REACTIVITY | APPLICATIONS |
|---|---|---|---|
| **AAA127078** | **Rabbit** | **Human, Mouse, Rat** | **ELISA, Immunohistochemistry, Western Blot** |

## PRODUCT SYNONYMS

GHRH; Polyclonal Antibody; Anti-GHRH Antibody Picoband; discoidin domain receptor tyrosine kinase 2; Discoidin domain-containing receptor 2; Discoidin domain receptor 2; CD167 antigen-like family member B; Discoidin domain-containing receptor tyrosine kinase 2; Neurotrophic tyrosine kinase; receptor-related 3; Receptor protein-tyrosine kinase TKT; Tyrosine-protein kinase TYRO10; CD167b; DDR2; NTRKR3; TKT; TYRO10; anti-GHRH antibody

## PRODUCT SPECIFICATIONS

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| **Host** | Rabbit |
| **Reactivity** | Human, Mouse, Rat |
| **Clonality** | Polyclonal |
| **Isotype** | Rabbit IgG |
| **Specificity** | Detected in osteocytes, osteoblastic cells in subchondral bone, bone lining cells, tibia and cartilage (at protein level). Detected at high levels in heart and lung, and at low levels in brain, placenta, liver, skeletal muscle, pancreas, and kidney. |
| **Purity/Purification** | Immunogen affinity purified. |
| **Form/Format** | Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4. |
| **Applicable Applications for anti-GHRH antibody** | ELISA, IHC (Immunohistochemistry), WB (Western Blot) |
| **Immunogen** | E coli-derived human GHRH recombinant protein (Position: Y32-L75). |
| **Subcellular Localization** | Cell membrane |
| **Reconstitution** | Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml. |
| **Cross Reactivity** | No cross-reactivity with other proteins. |
| **Protein Function** | Tyrosine kinase that functions as cell surface receptor for fibrillar collagen and regulates cell differentiation, remodeling of the extracellular matrix, cell migration and cell proliferation. Required for normal bone development. Regulates osteoblast differentiation and chondrocyte maturation via a signaling pathway that involves MAP kinases and leads to the activation of the transcription factor RUNX2. Regulates remodeling of the extracellular matrix by up-regulation of the collagenases MMP1, MMP2 and MMP13, and thereby facilitates cell migration and tumor cell invasion. Promotes fibroblast migration and proliferation, and thereby contributes to cutaneous wound healing. |
| **Preparation and Storage** | At -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months.Avoid repeated freezing and thawing. |

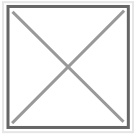
## IMAGES

**IHC (Immunohistochemisry)**

Figure 3. IHC analysis of GHRH using anti-GHRH antibody (AAA127078).GHRH was detected in a paraffin-embedded section of rat testis 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 2ug/ml rabbit anti-GHRH Antibody (AAA127078) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.

**IHC (Immunohiostchemistry)**

Figure 2. IHC analysis of GHRH using anti-GHRH antibody (AAA127078).GHRH was detected in a paraffin-embedded section of mouse testis 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 2ug/ml rabbit anti-GHRH Antibody (AAA127078) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.



**WB (Western Blot)**

Figure 1. Western blot analysis of GHRH using anti-GHRH antibody (AAA127078).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: rat lung tissue lysates,Lane 2: mouse lung tissue 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-GHRH antigen affinity purified polyclonal antibody (#AAA127078) at 0.5ug/mL overnight at 4 degree 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 with Tanon 5200 system. A specific band was detected for GHRH at approximately 13-15 kDa. The expected band size for GHRH is at 12 kDa.

## ADDITIONAL INFORMATION

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| **Related Product Information for anti-GHRH antibody** | 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. |
| **Product Categories/Family for anti-GHRH antibody** | Primary Antibodies; Cardiogenesis; Cardiovascular; Neuroscience; Neurotransmission; Receptors/Channels |
| **References** | 1. Alba, M., Salvatori, R. A mouse with targeted ablation of the growth hormone-releasing hormone gene: a new model of isolated growth hormone deficiency. Endocrinology 145: 4134-4143, 2004. 2. Behrens, L. H., Barr, D. P. Hyperpituitarism beginning in infancy: the Alton giant. Endocrinology 16: 120-128, 1932.3. Busto, R., Schally, A. V., Varga, J. L., Garcia-Fernandez, M. O., Groot, K., Armatis, P., Szepeshazi, K. The expression of growth hormone-releasing hormone (GHRH) and splice variants of its receptor in human gastroenteropancreatic carcinomas. Proc. Nat. Acad. Sci. 99: 11866-11871, 2002. |

## NCBI AND UNIPROT INFORMATION

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| **NCBI GI #** | 296080717 |
| **NCBI GeneID** | 2691 |
| **NCBI Accession #** | NP_001171660.1 |
| **NCBI GenBank Nucleotide #** | NM_001184731.1 |
| **UniProt Accession #** | P01286; Q4KN10; Q5JYR1 |
| **Molecular Weight** | 12,360 Da |
| **NCBI Official Full Name** | somatoliberin isoform 2 preproprotein |

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| **NCBI Official Synonym Full Names** | growth hormone releasing hormone |
| **NCBI Official Symbol** | GHRH |
| **NCBI Official Synonym Symbols** | GRF; INN; GHRF |
| **NCBI Protein Information** | somatoliberin; growth hormone-releasing factor; growth hormone-releasing hormone; sermorelin; somatocrinin; somatorelin |
| **UniProt Protein Name** | Somatoliberin |
| **UniProt Gene Name** | **GHRH** |
| **UniProt Synonym Gene Names** | GHRF; GRF; GHRH |
| **UniProt Entry Name** | SLIB_HUMAN |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: https://stage.aaabiotech.com/polyclonal/ghrh-antibody-immunohistochemistry-western-blot-elisa/127078