

**GHR Antibody (N-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP16661a****Specification**

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**GHR Antibody (N-term) Blocking Peptide - Product Information**Primary Accession [P10912](#)**GHR Antibody (N-term) Blocking Peptide - Additional Information****Gene ID** 2690**Other Names**

Growth hormone receptor, GH receptor, Somatotropin receptor, Growth hormone-binding protein, GH-binding protein, GHBP, Serum-binding protein, GHR

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**GHR Antibody (N-term) Blocking Peptide - Protein Information****Name** GHR**Function**

Receptor for pituitary gland growth hormone involved in regulating postnatal body growth. On ligand binding, couples to the JAK2/STAT5 pathway (By similarity). Isoform 2 up-regulates the production of GHBP and acts as a negative inhibitor of GH signaling.

**Cellular Location**

Cell membrane; Single-pass type I membrane protein. Note=On growth hormone binding, GHR is ubiquitinated, internalized, down-regulated and transported into a degradative or non- degradative pathway. [Growth hormone-binding protein]: Secreted. Note=Complexed to a substantial fraction of circulating GH

**Tissue Location**

Expressed in various tissues with high expression in liver and skeletal muscle. Isoform 4 is predominantly expressed in kidney, bladder, adrenal gland and brain stem. Isoform 1 expression in placenta is predominant in chorion and decidua. Isoform 4 is highly expressed in placental villi. Isoform 2 is expressed in lung, stomach and muscle. Low levels in liver

## **GHR Antibody (N-term) Blocking Peptide - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

## **GHR Antibody (N-term) Blocking Peptide - Images**

## **GHR Antibody (N-term) Blocking Peptide - Background**

This gene encodes a protein that is a transmembranereceptor for growth hormone. Binding of growth hormone to thereceptor leads to receptor dimerization and the activation of anintra- and intercellular signal transduction pathway leading togrowth. A common alternate allele of this gene, called GHRd3, lacksexon three and has been well-characterized. Mutations in this genehave been associated with Laron syndrome, also known as the growthhormone insensitivity syndrome (GHIS), a disorder characterized byshort stature. Other splice variants, including one encoding asoluble form of the protein (GHRtr), have been observed but havenot been thoroughly characterized. In humans and rabbits, but notrodents, growth hormone binding protein (GHBP) is generated byproteolytic cleavage of the extracellular ligand-binding domainfrom the mature growth hormone receptor protein. The preciselocation of this cleavage site has not been determined for thehuman protein.

## **GHR Antibody (N-term) Blocking Peptide - References**

Canzian, F., et al. Hum. Mol. Genet. 19(19):3873-3884(2010)Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010)Giavoli, C., et al. Eur. J. Endocrinol. 163(3):361-368(2010)Alvarez-Nava, F., et al. J. Pediatr. Endocrinol. Metab. 23(8):773-782(2010)Lisitskaia, K.V., et al. Mol. Gen. Mikrobiol. Virusol. 2, 34-37 (2010) :