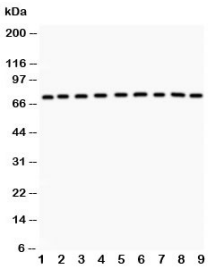
GHR Antibody / Growth Hormone Receptor (R30816)

Catalog No.	Formulation	Size
R30816	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Mouse, Rat
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide/thimerosal
UniProt	P16882
Applications	Western Blot : 0.5-1ug/ml
Limitations	This GHR antibody is available for research use only.



Western blot testing of GHR antibody and Lane 1: rat liver; 2: (r) kidney; 3: (r) spleen; 4: (r) intestine; 5: mouse spleen; 6: (m) testis; 7: (m) liver; 8: (m) kidney; 9: (m) intestine. Predicted molecular weight ~72 kDa but GHR can be glycosylated, ubiquitinated and complex with GH causing a larger than predicted size to be observed.

Description

The Growth hormone receptor is found on human chromosome 5p13.1-p12 and 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. The Growth hormone receptor 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 two 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). 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 Growth hormone receptor gene have been demonstrated as the cause of

Laron syndrome , also known as the growth hormone insensitivity syndrome (GHIS).

Application Notes

The stated application concentrations are suggested starting amounts. Titration of the GHR antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

An amino acid sequence from the middle region of mouse Growth hormone receptor (DKEHEVRVRSRQRSFEK) was used as the immunogen for this GHR antibody (100% rat homology).

Storage

After reconstitution, the GHR antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.