Datasheet for ABIN2181160

Growth Hormone Receptor Protein (GHR) (AA 27-264) (His tag,Biotin)

2 Images

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Overview

Quantity:	50 µg
Target:	Growth Hormone Receptor (GHR)
Protein Characteristics:	AA 27-264
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This Growth Hormone Receptor protein is labelled with His tag,Biotin.

Product Details

Brand:	MABSol®,UltraLys
Sequence:	AA 27-264
Specificity:	The primary amines in the side chains of lysine residues and the N-terminus of the protein are conjugated with biotins using standard chemical labeling method. A standard biotin reagent (13.5 angstroms) is used in this product.
Characteristics:	This protein carries a polyhistidine tag at the C-terminus. The protein has a calculated MW of 28.5 kDa. The protein migrates as 40-60 kDa on a SDS-PAGE gel under reducing (R) condition due to glycosylation.
Purity:	>90 % as determined by reduced SDS-PAGE.
Sterility:	0.22 µm filtered

Product Details

Endotoxin Level:	Less than 1.0 EU per μg by the LAL method.

Target Details

Target:	Growth Hormone Receptor (GHR)
Alternative Name:	Growth Hormone R (GHR Products)
Background:	Growth hormone receptor (GHR) is also known as somatotropin receptor, growth hormone-binding protein (GHBR), which belongs to the type I cytokine receptor family or Type 1 subfamily. GHR contains one fibronectin type-III domain. GHR / GHBR is expressed in various tissues with high expression in liver and skeletal muscle. The soluble form (GHBP) is produced by phorbol ester-promoted proteolytic cleavage at the cell surface (shedding) by ADAM17/TACE. GHR is receptor for pituitary gland growth hormone involved in regulating postnatal body growth. On ligand binding, couples to the JAK2/STAT5 pathway. The soluble form (GHBP) acts as a reservoir of growth hormone in plasma and may be a modulator/inhibitor of GH signaling.
Molecular Weight:	29.6 kDa
NCBI Accession:	NP_000154
UniProt:	P10912
Pathways:	NF-kappaB Signaling, JAK-STAT Signaling, Response to Growth Hormone Stimulus

Application Details

Comment:	A chemically labeled biotinylated protein with ultra sensitivity. The product is produced using a chemical labeling approach. The primary amines in the side chains of lysine residues and the N-terminus of protein are conjugated with biotins. Chemical labeling usually results in multiple biotin attachment on a single protein molecule, which could potentially lead to higher detection sensitivity.
Restrictions:	For Research Use only

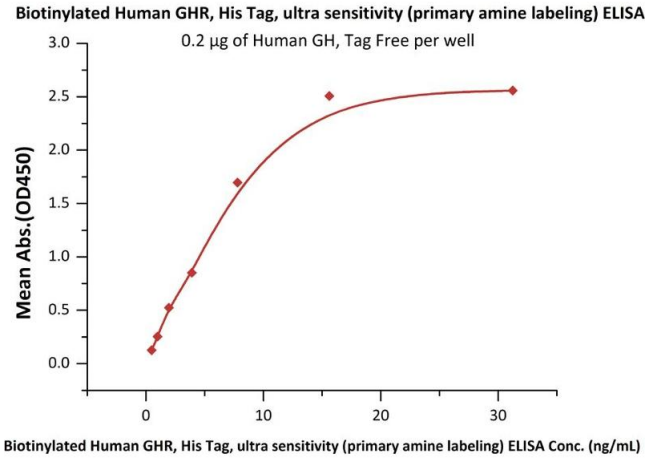
Handling

Format:	Lyophilized
Buffer:	PBS, pH 7.4
Handling Advice:	Please avoid repeated freeze-thaw cycles.

Handling

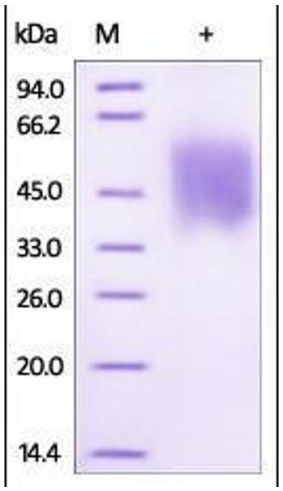
Storage:	-20 °C
Storage Comment:	No activity loss was observed after storage at: In lyophilized state for 1 year (4 °C), After reconstitution under sterile conditions for 3 months (-70 °C).

Images



ELISA

Image 1. Immobilized Human GH, Tag Free at 2 μg/mL (100 μL/well) can bind Biotinylated Human GHR, His Tag, ultra sensitivity (primary amine labeling) (ABIN2181160,ABIN2693591) with a linear range of 0.5-8 ng/mL (QC tested).



SDS-PAGE

Image 2. Biotinylated Human Growth Hormone R on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.