

Product Information

MemDX™ Antibody Discovery - Human Growth Hormone R (27-264) Membrane Protein, Partial, -hIgG1 Fc tag

Cat. No.: **MP0145F**

This product is for research use only and is not intended for diagnostic use.

This membrane protein is Human Growth Hormone R (27-264). It has been tested in SDS-PAGE, ELISA. We provide this protein to facilitate your membrane protein antibody discovery and development.

Product Specifications

Host Species

Human

Target Protein

Growth Hormone R

Protein Length

ECD

Molecular Weight

The protein has a calculated MW of 54.3 kDa. As a result of glycosylation, the protein migrates as 66-85 kDa under reducing (R) condition, and 135-160 kDa under non-reducing (NR) condition (SDS-PAGE).

Sequence

AA Ala 27 - Tyr 264 (Accession # P10912).

Product Description

Activity

Yes

Application

SDS-PAGE, ELISA

Expression Systems

HEK293

Tag

Human IgG1 Fc tag at the C-terminus

Protein Format

Soluble

Form

LYOPH

Reconstitution

Please see Certificate of Analysis for specific instructions.

Endotoxin

<1.0 EU/μg by the LAL method

Purity

>95% as determined by SDS-PAGE.

Buffer

Lyophilized from 0.22 μm filtered solution in PBS, pH7.4. Normally trehalose is added as protectant before lyophilization.

Storage

Stored at lyophilized form at -20°C or lower. Avoid repeated freeze-thaw cycles.

The antigen can be stable for 12 months in lyophilized form after storage at -20°C to -80°C, 3 months under sterile conditions after reconstitution after storage at -80°C.

Target

Target Protein

Growth Hormone R

Full Name

growth hormone receptor

Introduction

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.

Alternative Names

GHBP; GHIP; growth hormone receptor; GH receptor; growth hormone binding protein; serum binding protein; somatotropin receptor

Gene ID

[2690](#)

UniProt ID

[P10912](#)