SANTA CRUZ BIOTECHNOLOGY, INC.

GHR (L-16): sc-10352



BACKGROUND

GHR (growth hormone receptor) binds growth hormone (GH), which is produced by the anterior pituitary and regulates body growth and other metabolic processes. GHR is an integral membrane protein and a member of the cytokine receptor family. A common characteristic of the cytokine receptor family is having soluble forms of the protein. The soluble form of GHR is GHbinding protein (GHBP), which is generated by the proteolytic cleavage of the extracellular domain of GHR. Reduced levels of GHBP are associated with GH insensitivity syndrome (GHIS). GHR has been shown to be transcribed via at least two different promoters, resulting in GHR 1A and GHR 1B. Both GHR 1A and 1B are expressed in liver, whereas GHR 1B is also expressed in muscle, uterus and ovary tissues.

REFERENCES

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- Liu, J., Carroll, J.A., Matteri, R.L. and Lucy, M.C. 2000. Expression of two variants of growth hormone receptor messenger ribonucleic acid in porcine liver. J. Anim. Sci. 78: 306-317.

CHROMOSOMAL LOCATION

Genetic locus: GHR (human) mapping to 5p13.1.

SOURCE

GHR (L-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of GHR of human origin.

PRODUCT

Each vial contains 200 μg lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-10352 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

GHR (L-16) is recommended for detection of GHR of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

GHR (L-16) is also recommended for detection of GHR in additional species, including equine, canine and porcine.

Suitable for use as control antibody for GHR siRNA (h): sc-40015, GHR shRNA Plasmid (h): sc-40015-SH and GHR shRNA (h) Lentiviral Particles: sc-40015-V.

Molecular Weight of GHR precursor: 110 kDa.

Molecular Weight of glycosylated mature GHR: 140 kDa.

Positive Controls: SJRH30 cell lysate: sc-2287, Hep G2 cell lysate: sc-2227 or HeLa whole cell lysate: sc-2200.

DATA



GHR (L-16): sc-10352. Western blot analysis of GHR expression in HeLa (A) and SJRH30 (B) whole cell lysates.

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.

MONOS Satisfation Guaranteed

Try GHR (B-10): sc-137185 or GHR (B-12):

sc-137184, our highly recommended monoclonal aternatives to GHR (L-16). Also, for AC, HRP, FITC, PE, Alexa Fluor[®] 488 and Alexa Fluor[®] 647 conjugates, see **GHR (B-10): sc-137185**.