Datasheet for ABIN6939514

anti-Growth Hormone 1 antibody

5 Images

Go to Product page

Overview

Quantity:	100 µg
Target:	Growth Hormone 1 (GH1)
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Growth Hormone 1 antibody is un-conjugated
Application:	Immunohistochemistry (IHC), Staining Methods (StM)

Product Details

Immunogen:	Full-length of human Growth Hormone (GH) protein
Clone:	GH-3155
Isotype:	IgG1 kappa
Purification:	Purified by Protein A/G

Target Details

Target:	Growth Hormone 1 (GH1)
Alternative Name:	GH1 (GH1 Products)
Background:	Pituitary growth hormone (GH) plays a crucial role in stimulating and controlling the growth, metabolism and differentiation of many mammalian cell types by modulating the synthesis of multiple mRNA species. These effects are mediated by the binding of GH to its membrane-bound receptor, GHR, and involve a phosphorylation cascade that results in the modulation of

Target Details

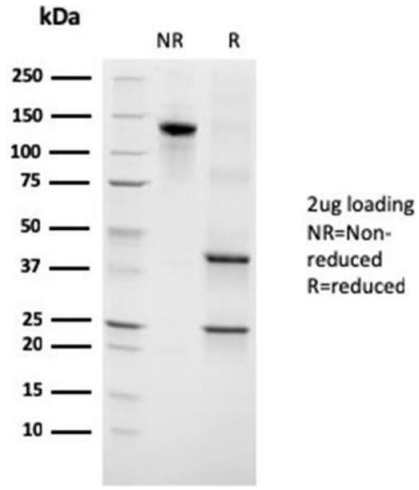
	numerous signaling pathways. GH is synthesized by acidophilic or somatotropic cells of the anterior pituitary gland. Anti-GH is a useful marker in classification of pituitary tumors and the study of pituitary disease (acromegaly).
Molecular Weight:	20kDa
Gene ID:	2688
UniProt:	P01241
Pathways:	NF-kappaB Signaling, JAK-STAT Signaling, Intracellular Steroid Hormone Receptor Signaling Pathway, Peptide Hormone Metabolism, Regulation of Intracellular Steroid Hormone Receptor Signaling, Regulation of Hormone Metabolic Process, Response to Growth Hormone Stimulus, Regulation of Hormone Biosynthetic Process

Application Details

Application Notes:	Positive Control: Pituitary cells. Human pituitary tissue (IHC). Known Application: Immunohistochemistry (Formalin-fixed) (1-2 µg/mL for 30 min at RT),(Staining of formalin-fixed tissues requires boiling tissue sections in 10 mM Citrate Buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes),Optimal dilution for a specific application should be determined.
Restrictions:	For Research Use only

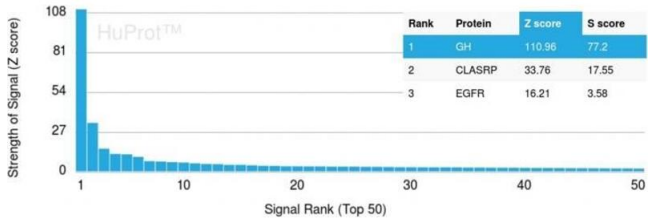
Handling

Concentration:	200 µg/mL
Buffer:	10 mM PBS with 0.05 % BSA & 0.05 % azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-80 °C
Storage Comment:	Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.
Expiry Date:	24 months



SDS-PAGE

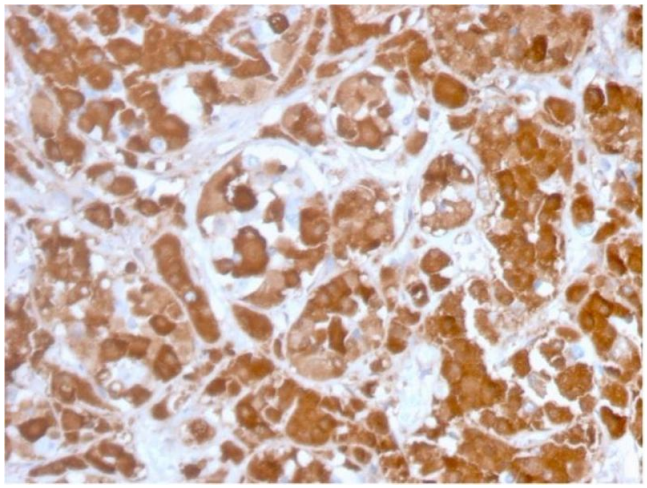
Image 1. SDS-PAGE Analysis Purified Growth Hormone Mouse Monoclonal Antibody (GH/3155). Confirmation of Integrity and Purity of Antibody.



Protein Array

Image 2. Analysis of Protein Array containing more than 19,000 full-length human proteins using Growth Hormone Mouse Monoclonal Antibody (GH/3155). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProtTM array. Z-scores are described in units of standard deviations (SDs) above the mean value of all signals generated on that array. If targets on HuProtTM are arranged in descending order of the Z-score, the S-score is the difference (also in units of SDs) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.

Images



Immunohistochemistry

Image 3. Formalin-fixed, paraffin-embedded human Pituitary stained with Growth Hormone Mouse Monoclonal Antibody (GH/3155).

Please check the product details page for more images. Overall 5 images are available for ABIN6939514.