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Datasheet for ABIN235517 anti-Growth Hormone 1 antibody

Validation



Overview

Quantity:	1 mg
Target:	Growth Hormone 1 (GH1)
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Growth Hormone 1 antibody is un-conjugated
Application:	ELISA
Product Details	

Immunogen:	hGH isolated from human pituitary gland
Clone:	090-10154
lsotype:	lgG1
Cross-Reactivity (Details):	Cross-reactivity: Synthetic hGH (Somatonorm) 100 % Human Placental Lactogen <0.00 % Human Prolactin <0.00 %
Characteristics:	MAb to hGH, Monoclonal antibody to Human Growth Hormone (hGH)
Purification:	Protein A Chromatography. Ascites
Sterility:	0.2 µm filtered
Target Details	

Target:

Growth Hormone 1 (GH1)

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Target Details	
Alternative Name:	Growth Hormone (hGH) (GH1 Products)
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:	Suitable for use in ELISA. Each laboratory should determine an optimum working titer for use in its particular application. Other applications have not been tested but use in such assays should not necessarily be excluded.
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	10 mM Phosphate, pH 7.4 containing 150 mM Sodium chloride, 0.1 % Sodium 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.
Handling Advice:	Avoid repeated freeze/thaw cycles.
	Centrifuge product if not completely clear after standing at room temperature. Prepare working dilution only prior to immediate use.
Storage:	Centrifuge product if not completely clear after standing at room temperature. Prepare working dilution only prior to immediate use. 4 °C/-80 °C
Storage: Storage Comment:	Centrifuge product if not completely clear after standing at room temperature. Prepare working dilution only prior to immediate use. 4 °C/-80 °C Short term (up to 7 days) store at 2-8 °C. Long term, aliquot and store at <-48 °C. If aliquoted for long term storage, fill volume should be equal to or greater than 50 % of the nominal fill volume of the vial used.

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NDEPENDER	Successfully validated (Unfolding Profile (UP))
	by NanoTemper Technologies
	Report Number: 102719
VALIDATION CUSTOMER VALIDATION DATE 102719 05/11/18	Date: Nov 05 2018
Target:	GH1
Lot Number:	H0833.1
Method validated:	Unfolding Profile (UP)
Positive Control:	ABIN235517
Notes:	Passed. ABIN235517 showed a clear unfolding profile with one detected unfolding event with a
	T _i at 76.3°C. This suggests that the protein is properly folded and functional.
Primary Antibody:	ABIN235517
Protocol:	• Dilute ABIN235517 1:10 in PBS buffer (Roth, 1058.1, lot 285231988) to get a final volume of
	 Load sample into Tycho capillary (NanoTemper Technologies, TY-C001).
	Run Tycho measurement.
Experimental Notes:	Tycho is designed to run quick and precise protein quality check experiments. Tycho uses
	intrinsic protein fluorescence to follow protein unfolding while running a fast thermal ramp,
	yielding results in 3min. A protein's unfolding behavior is characterized by various parameters,
	most notably the inflection temperature (T_i). The T_i can be used to identify properly folded
	protein, to compare different batches, or to analyze the influence of storage/transport
	conditions on a protein. An absence of T_{i} would suggest that the protein is already unfolded
	and therefore most likely nonfunctional.



Validation image no. 1 for anti-Growth Hormone 1 (GH1) antibody (ABIN235517)

Unfolding profile of ABIN235517. The fluorescence signal is plotted against temperature. The native (folded) protein has a low signal at the beginning of the experiment, which increases upon unfolding, showing one unfolding event.

The vertical line indicates the T_i at 76.3°C.

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