

产品名称: GHR Rabbit Polyclonal Antibody

产品货号: APRab11437

产品概述 (Summary)

描述(Description)	Rabbit polyclonal Antibody
宿主(Host)	Rabbit
应用(Application)	WB,ELISA
种属反应(Reactivity)	Human,Mouse,Rat
偶联物(Conjugation)	Unconjugated
修饰(Modification)	Unmodified
同种型(Isotype)	IgG
克隆(Clonality)	Polyclonal
剂型(Form)	Liquid
保存条件(Storage)	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
储存溶液(Buffer)	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
纯化 (Purification)	Affinity purification

产品应用(Application)

稀释比(Dilution Ratio)	WB 1:500-1:2000,ELISA 1:5000-1:20000
分子量(Molecular Weight)	140kDa

抗原信息(Antigen Information)

基因名(Gene Name)	GHR
别名(Alternative Names)	GHR; Growth hormone receptor; GH receptor; Somatotropin receptor
基因 ID(Gene ID)	2690.0
SwissProt ID	P10912
免疫原(Immunogen)	The antiserum was produced against synthesized peptide derived from the N-terminal region of human GHR. AA range:21-70

研究背景 (Background)

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.[provided by RefSeq, Jun 2011],disease:Defects in GHR are a cause of Laron dwarfism [MIM:262500]; also known as pituitary dwarfism II; Laron-type pituitary dwarfism I (LTD1) or Laron syndrome (LS). It is the most severe form of growth hormone insensitivity (GHI) characterized by growth impairment, dysmorphic facial features and truncal obesity. Levels of GHBP are low or undetectable in patients with Laron syndrome.,disease:Defects in GHR may be a cause of short stature [MIM:604271]. Short stature is defined by a subnormal rate of growth.,domain:The box 1 motif is required for JAK interaction and/or activation.,domain:The extracellular domain is the ligand-binding domain representing the growth hormone-binding protein (GHBP),domain:The ubiquitination-dependent endocytosis motif (UbE) is required for recruitment of the ubiquitin conjugation system on to the receptor and for its internalization.,domain:The WSXWS motif appears to be necessary for proper protein folding and thereby efficient intracellular transport and cell-surface receptor binding.,function:Isoform 2 up-regulates the production of GHBP and acts as a negative inhibitor of GH signaling.,function:Receptor for pituitary gland growth hormone involved in regulating postnatal body growth. On ligand binding, couples to the JAK2/STAT5 pathway.,function:The soluble form (GHBP) acts as a reservoir of growth hormone in plasma and may be a modulator/inhibitor of GH signaling.,polymorphism:Genetic variation in GHR may act as phenotype modifier in familial hypercholesterolemia [MIM:143890] patients carrying a mutation in the LDLR gene.,PTM:On GH binding, phosphorylated on tyrosine residues in the cytoplasmic domain by JAK2.,PTM:On ligand binding, ubiquitinated on lysine residues in the cytoplasmic domain. This ubiquitination is not sufficient for GHR internalization.,PTM:The soluble form (GHBP) is produced by phorbol ester-promoted proteolytic cleavage at the cell surface (shedding) by ADAM17/TACE. Shedding is inhibited by growth hormone (GH) binding to the receptor probably due to a conformational change in GHR rendering the receptor inaccessible to ADAM17.,similarity:Belongs to the type I cytokine receptor family. Type 1 subfamily.,similarity:Contains 1 fibronectin type-III domain.,subcellular location:On growth hormone binding, GHR is ubiquitinated, internalized, down-regulated and transported into a degradative or non-degradative pathway.,subcellular location:Remains fixed to the cell membrane and is not internalized.,subunit:On growth hormone (GH) binding, forms homodimers and binds JAK2 via a box 1-containing domain (By similarity). Binding to SOCS3 inhibits JAK2 activation, binding to CIS and SOCS2 inhibits STAT5 activation (By similarity). Interacts with ADAM17.,tissue specificity:Expressed in various tissues with high expression in liver and skeletal muscle. Isoform 4 is predominantly expressed in kidney, bladder, adrenal gland and brain stem. In the placenta, isoform 1 predominantly expressed in chorion and decidua, isoform 4 highly expressed in villi. Isoform 2 is expressed in lung, stomach and muscle. Low levels in liver.,

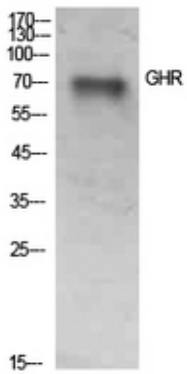
研究领域 (Research Area)

Cytokine-cytokine receptor interaction;Neuroactive ligand-receptor interaction;Jak_STAT;

注意事项 (Note)

For research use only.

图片 (Image Data)



Western Blot analysis of SKOV3 cells using GHR Polyclonal Antibody.. Secondary antibody was diluted at 1:20000

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产品类别	产品货号	产品名称
WB 解决方案	RA10020	2h 极速 WB 即用型全流程试剂盒
	RA10021	4h 快速 WB 即用型全流程试剂盒
	RA10042	5h 畅享版 WB 全流程试剂盒
	RA10037	校准级彩色预染蛋白 Marker (8-180kDa)
	RA10038	校准级彩色预染蛋白 Marker (10-250kDa)
	RA10039	校准级高分子彩色预染蛋白 Marker (25-400kDa)
TSA 多重荧光染色试剂盒	RA10008	TSA 双标三色多重荧光染色试剂盒 (mIHC)
	RA10009	TSA 三标四色多重荧光染色试剂盒 (mIHC)
	RA10010	TSA 四标五色多重荧光染色试剂盒 (mIHC)
	RA10011	TSA 五标六色多重荧光染色试剂盒 (mIHC)
	RA10012	TSA 六标七色多重荧光染色试剂盒 (mIHC)
IHC 检测试剂盒	RA10006	HRP Anti-Mouse/Rabbit IHC Detection System
	RA10007	Polymer-HRP Anti-Mouse/Rabbit IHC Detection System
抗体标记试剂盒	RE80004p	辣根过氧化物酶(HRP)抗体标记试剂盒
	RE80002q	Sulfo-NHS-生物素标记试剂盒
	RE80007p	Cy3 荧光素标记试剂盒
	RE80011p	Fluor488 荧光素标记试剂盒
	RE80017p	Fluor750 荧光素标记试剂盒
	RE80005p	藻红蛋白(R-PE) 抗体快速标记试剂盒
	RE80040	PE-Cy7 串联染料抗体快速标记试剂盒
稳转细胞系构建服务 (免费赠送全膜 WB 验证)	TS-0001	过表达稳转细胞系构建
	TS-0002	敲低稳转细胞系构建
	TS-0003	敲除细胞系构建

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