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GHBP Antibody

Rabbit Anti Human Polyclonal Antibody
Catalog # ABV11708

Product Information

Application	WB
Primary Accession	P10912
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	71500

Additional Information

Gene ID	2690
Positive Control	Western Blot: Recombinant protein
Application & Usage	Western blot: 1-4 □g/ml.
Other Names	GHR, GHBP, GH receptor, Growth hormone binding protein, Somatotropin receptor
Target/Specificity	GHBP
Antibody Form	Liquid
Appearance	Colorless liquid
Formulation	30 □g (0.5 mg/ml) of antibody in PBS pH 7.2 containing 0.01 % BSA, 0.01 % thimerosal, and 50 % glycerol.
Handling	The antibody solution should be gently mixed before use.
Reconstitution & Storage	-20 °C
Background Descriptions	
Precautions	GHBP Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	GHR
Function	Receptor for pituitary gland growth hormone (GH1) involved in regulating postnatal body growth (PubMed:1549776, PubMed:2825030, PubMed:8943276). On ligand binding, couples to the JAK2/STAT5 pathway

	(PubMed:1549776, PubMed:15690087, PubMed:2825030, PubMed:8943276).
Cellular Location	Cell membrane; Single-pass type I membrane protein. Note=On growth hormone binding, GHR is ubiquitinated, internalized, down-regulated and transported into a degradative or non-degradative pathway {ECO:0000250|UniProtKB:P19941} [Growth hormone-binding protein]: Secreted. Note=Complexed to a substantial fraction of circulating GH.
Tissue Location	Expressed in various tissues with high expression in liver and skeletal muscle. [Isoform 4]: Predominantly expressed in kidney, bladder, adrenal gland and brain stem (PubMed:1569971). Highly expressed in placental villi (PubMed:1569971, PubMed:8360189)

Background

GHBP 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. A common alternate allele of this gene, called GHRd3, lacks exon three and has been well-characterized. 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. Human Recombinant GHBP expressed from E. coli is a single, non-glycosylated, polypeptide chain containing 237 amino acids and having a molecular mass of 30.3 kDa.