

GLP1 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP5500c

Product Information

Application	WB, FC, E
Primary Accession	P0C6A0
Other Accession	NP_001096637.1
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB26991
Calculated MW	29695
Antigen Region	85-112

Additional Information

Gene ID	100125288
Other Names	GATA-type zinc finger protein 1, GATA-like protein 1, GLP-1, ZGLP1, GLP1
Target/Specificity	This GLP1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 85-112 amino acids from the Central region of human GLP1.
Dilution	WB~~1:1000 FC~~1:10~50 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	GLP1 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	ZGLP1 (HGNC:37245)
Function	Transcriptional regulator that plays a key role in germ cell development. Determines the oogenic fate by activating key genes for the oogenic program and meiotic prophase entry. Acts downstream of bone morphogenetic protein (BMP) by regulating expression of genes required for the oogenic programs,

which are repressed by Polycomb activities in sexually uncommitted germ cells. Regulates expression of STRA8, a central downstream effector for the meiotic program. Acts independently of retinoic acid (RA). In males, not required for germ-cell sex determination, but required to allow the spermatogonia to efficiently accomplish the meiotic prophase.

Cellular Location

Nucleus {ECO:0000250|UniProtKB:Q1WG82}.

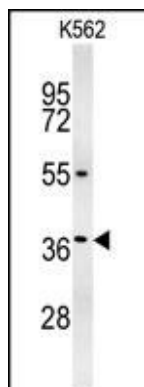
Background

Glucagon is initially synthesised as proglucagon, which is 180 amino acids in length and is cleaved proteolytically. It contains a region corresponding to Glucagon itself, in addition to a signal peptide, spacer regions and two Glucagon-like peptide sequences. GLP1 is encoded by the fourth exon of the six in the human Glucagon gene. It is 37 amino acids in length and has 48% amino acid sequence homology to Glucagon, and is thought to have arisen by gene duplication. The sequence of GLP1 is conserved across many species, however, indicating that it has a particular function. GLP1 is a potent insulin secretagogue, renders pancreatic beta cells 'glucose-competent' and may be useful in the treatment of diabetes mellitus.

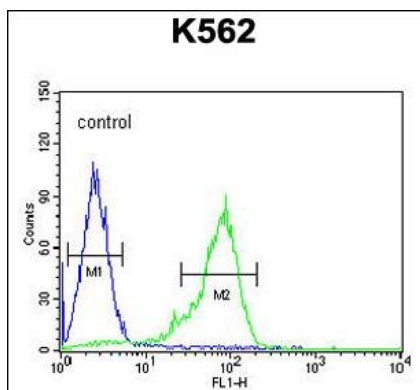
References

Sanz, C., et al. Am. J. Physiol. Endocrinol. Metab. 298 (3), E634-E643 (2010) :
Brown, R.J., et al. Diabetes Care 32(12):2184-2186(2009)
Li, S., et al. Dev. Biol. 301(1):106-116(2007)

Images



GLP1 Antibody (Center) (Cat.#AP5500c) western blot analysis in K562 cell line lysates (35ug/lane). This demonstrates the GLP1 antibody detected the GLP1 protein (arrow).



GLP1 Antibody (Center) (Cat. #AP5500c) flow cytometric analysis of K562 cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.