10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

GPHB5 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP13233b

Product Information

Application	WB, IHC-P, E
Primary Accession	Q86YW7
Other Accession	NP_660154.2
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB33067
Calculated MW	14232
Antigen Region	62-91

Additional Information

Gene ID	122876
Other Names	Glycoprotein hormone beta-5, Thyrostimulin subunit beta, GPHB5, GPB5, ZLUT1
Target/Specificity	This GPHB5 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 62-91 amino acids from the C-terminal region of human GPHB5.
Dilution	WB~~1:1000 IHC-P~~1:100~500 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	GPHB5 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	GPHB5
Synonyms	GPB5, ZLUT1
Function	Functions as a heterodimeric glycoprotein hormone with GPHA2 able to

	bind and activate the thyroid-stimulating hormone receptor (TSHR), leading to increased cAMP production. Plays a central role in controlling thyroid cell metabolism.
Cellular Location	Secreted.
Tissue Location	Highly expressed in brain and at low levels in pituitary. Also found in retina, testis and skin but not in pancreas, parotid, kidney, stomach, liver, colon, small intestine, thyroid, brain or adrenal gland. In pituitary, colocalizes with ACTH, suggesting that it is located in corticotrophs.

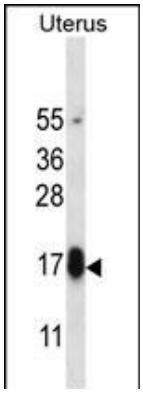
Background

GPHB5 is a cystine knot-forming polypeptide and a subunit of the dimeric glycoprotein hormone family (Hsu et al., 2002 [PubMed 12089349]).

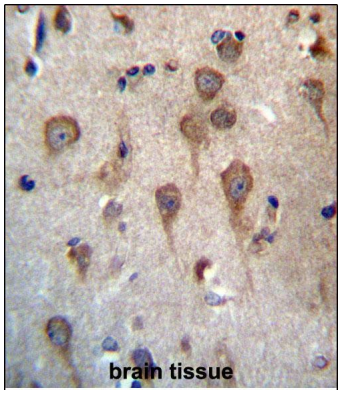
References

Suzuki, C., et al. Endocrinology 150(5):2237-2243(2009) Okajima, Y., et al. Regul. Pept. 148 (1-3), 62-67 (2008) : Okada, S.L., et al. Mol. Endocrinol. 20(2):414-425(2006) Sudo, S., et al. Endocrinology 146(8):3596-3604(2005) Heilig, R., et al. Nature 421(6923):601-607(2003)

Images



GPHB5 Antibody (C-term) (Cat. #AP13233b) western blot analysis in human normal Uterus tissue lysates (35ug/lane).This demonstrates the GPHB5 antibody detected the GPHB5 protein (arrow).



GPHB5 Antibody (C-term) (Cat. #AP13233b)immunohistochemistry analysis in formalin fixed and paraffin embedded human brain tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of GPHB5 Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.

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