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GPHB5 Antibody (C-term) Blocking Peptide

Synthetic peptide
Catalog # BP13233b

Specification

GPHB5 Antibody (C-term) Blocking Peptide - Product Information

Primary Accession Q86YW7

GPHB5 Antibody (C-term) Blocking Peptide - Additional Information

Gene ID 122876

Other Names
Glycoprotein hormone beta-5, Thyrostimulin subunit beta, GPHB5, GPB5, ZLUT1

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP13233b was selected from the C-term region of GPHB5. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

GPHB5 Antibody (C-term) Blocking Peptide - 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.

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GPHB5 Antibody (C-term) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides

GPHB5 Antibody (C-term) Blocking Peptide - Images

GPHB5 Antibody (C-term) Blocking Peptide - Background

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

GPHB5 Antibody (C-term) Blocking Peptide - 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)