

**GPHB5 Antibody (C-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP13233b****Specification**

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**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.

## **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 subunit of 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)