

**CGB/HCG-Beta Antibody (C-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP13036B****Specification**

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**CGB/HCG-Beta Antibody (C-term) - Product Information**

Application	WB, IHC-P,E
Primary Accession	<a href="#">P0DN86</a>
Other Accession	<a href="#">Q6NT52</a> , <a href="#">NP_149133.1</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Antigen Region	137-165

**CGB/HCG-Beta Antibody (C-term) - Additional Information****Gene ID** 1082;93659;94115**Other Names**

Choriogonadotropin subunit beta, CG-beta, Chorionic gonadotrophin chain beta, CGB, CGB3

**Target/Specificity**

This CGB/HCG-Beta antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 137-165 amino acids from the C-terminal region of human CGB/HCG-Beta.

**Dilution**

WB~~1:1000

IHC-P~~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 prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

**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**

CGB/HCG-Beta Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**CGB/HCG-Beta Antibody (C-term) - Protein Information****Name** CGB3

## Synonyms CGB

**Function** Beta subunit of the human chorionic gonadotropin (hCG). hCG is a complex glycoprotein composed of two glycosylated subunits alpha and beta which are non-covalently associated. The alpha subunit is identical to those in the pituitary gonadotropin hormones (LH, FSH and TSH). The beta subunits are distinct in each of the hormones and confer receptor and biological specificity. Has an essential role in pregnancy and maternal adaptation. Stimulates the ovaries to synthesize the steroids that are essential for the maintenance of pregnancy.

## Cellular Location

Secreted.

## Tissue Location

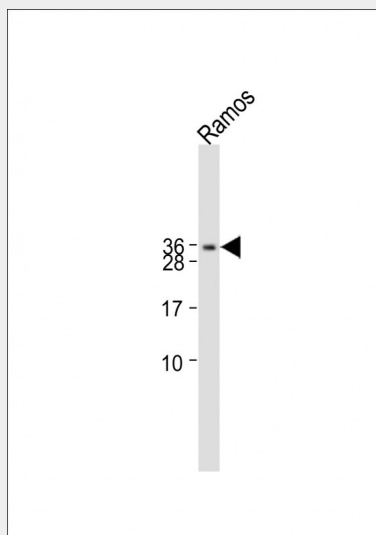
High expression in the placenta throughout pregnancy.

## CGB/HCG-Beta Antibody (C-term) - Protocols

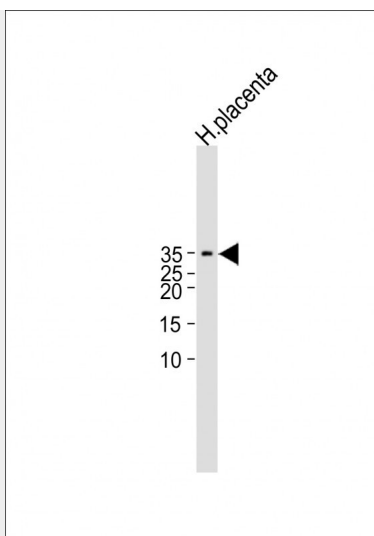
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

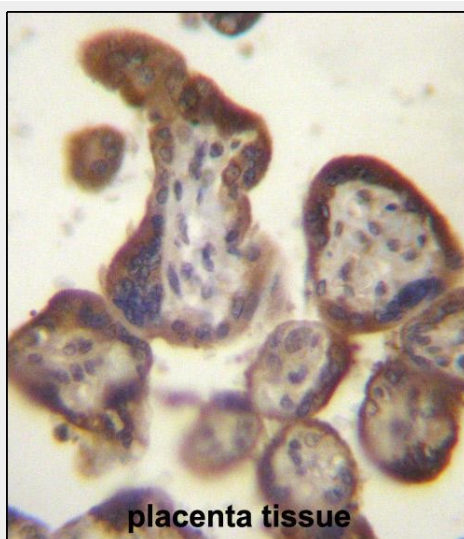
## CGB/HCG-Beta Antibody (C-term) - Images



All lanes : Anti-CGB/HCG-Beta Antibody (C-term) at 1:500 dilution Lane 1: Ramos cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (ASP1615) at 1/15000 dilution. Observed band size : 34kDa Blocking/Dilution buffer: 5% NFDM/TBST.



All lanes : Anti-CGB/HCG-Beta Antibody (C-term) at 1:1000 dilution Lane 1: Human placenta lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (ASP1615) at 1/15000 dilution. Observed band size : 34 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



CGB/HCG-Beta Antibody (C-term) (Cat. #AP13036b) immunohistochemistry analysis in formalin fixed and paraffin embedded human placenta tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of CGB/HCG-Beta Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.

### **CGB/HCG-Beta Antibody (C-term) - Background**

This gene is a member of the glycoprotein hormone beta chain family and encodes the beta 3 subunit of chorionic gonadotropin (CG). Glycoprotein hormones are heterodimers consisting of a common alpha subunit and a unique beta subunit which confers biological specificity. CG is produced by the trophoblastic cells of the placenta and stimulates the ovaries to synthesize the steroids that are essential for the maintenance of pregnancy. The beta subunit of CG is encoded by 6 genes which are arranged in tandem and inverted pairs on chromosome 19q13.3 and contiguous with the luteinizing hormone beta subunit gene.

### **CGB/HCG-Beta Antibody (C-term) - References**

Cole, L.A. Placenta 31(8):653-664(2010) Ra, Y.J., et al. Interact Cardiovasc Thorac Surg 11(1):114-116(2010) Verma, B., et al. J. Immunol. 184(4):2156-2165(2010) Handschuh, K., et al. Placenta 30(12):1016-1022(2009) Reisenbichler, E.S., et al. Breast J 15(5):527-530(2009)

**CGB/HCG-Beta Antibody (C-term) - Citations**

- [Corrigendum to "Korean red ginseng extract ameliorates melanogenesis in humans and induces anti-photo aging effects in ultraviolet B-irradiated hairless mice" \[J Ginseng Res 44 \(2020\) 496-505\]](#)
- [Generating Functional Multicellular Organoids from Human Placenta Villi](#)
- [β-hCG promotes epithelial ovarian cancer metastasis through ERK/MMP2 signaling pathway.](#)
- [Human chorionic gonadotropin β regulates epithelial-mesenchymal transition and metastasis in human ovarian cancer.](#)