Hcg Beta (hCGbeta) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	hCG beta (hCGbeta), Polyclonal Antibody
Full Product Name	hCG beta Antibody
Product Gene Name	anti-hCGbeta antibody
Product Synonym Names	Choriogonadotropin subunit beta [Precursor] ; CG-beta; Chorionic gonadotrophin chain beta
Clonality	Polyclonal
Isotype	Rabbit IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Specificity	The antibody detects endogenous levels of total hCG beta protein.
Preparation and Storage	Store at 4 degree C short term. Aliquot and store at -20 degree C long term. Avoid freeze/thaw cycles.
Molecular Weight	17,739 Da
Chromosome Location	Chromosome: 19; NC_000019.9 (49526126..49527632, complement). Location: 19q13.32
OMIM	118860
3D Structure	ModBase 3D Structure for P01233
Immunogen	Synthesized peptide derived from human hCG beta.
Product Categories/Family for anti-hCGbeta antibody	Primary Antibody
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-hCGbeta antibody	Western Blot (WB), Immunohistochemistry (IHC)
Application Notes for anti-hCGbeta antibody	WB: 1:500~1:3000 IHC: 1:50~1:100
Related Product Information for anti-hCGbeta antibody	Stimulates the ovaries to synthesize the steroids that are essential for the maintenance of pregnancy.
Product References and Citations for anti-hCGbeta antibody	Ruth McChesney, Hum. Reprod., Apr 2005; 20: 928 - 935.G. Zimmermann, Mol. Hum. Reprod., Feb 2003; 9: 81 - 89CM Thomas, Clin. Chem., Apr 1990; 36: 651 - 655.B Saller, Clin. Chem., Feb 1990; 36: 234 - 239
Other Notes	Small volumes of anti-hCGbeta antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for hCGbeta purchase	MBS8586986 is an antibody targeting hCGbeta. Also known as hCG beta Antibody. Reactive in Human, Mouse. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for hCGbeta. It may not necessarily be applicable to this product.

NCBI GI #	4502789
NCBI GeneID	1082
NCBI Accession #	NP_000728.1
UniProt Primary Accession #	P01233
UniProt Secondary Accession #	Q13991; Q14000; Q3KPI3; Q3SY41; Q8WTT5; Q8WXL1; Q8WXL2; Q8WXL3; Q8WXL4; A1A5E0; B9ZVP5
UniProt Related Accession #	P01233
GenBank Nucleotide #	NM_000737.3
NCBI Official Full Name	choriogonadotropin subunit beta
NCBI Official Synonym Full Names	chorionic gonadotropin, beta polypeptide
NCBI Official Symbol	CGB
NCBI Official Synonym Symbols	CGB3; CGB5; CGB7; CGB8; hCGB
UniProt Protein Name	Choriogonadotropin subunit beta
UniProt Synonym Protein Names	Chorionic gonadotrophin chain beta
UniProt Gene Name	CGB
UniProt Synonym Gene Names	CGB3; CG-beta
UniProt Entry Name	CGHB_HUMAN
NCBI Protein Information	choriogonadotropin subunit beta; CG-beta; chorionic gonadotropin beta chain; chorionic gonadotrophin chain beta; chorionic gonadotropin beta subunit; chorionic gonadotropin beta 3 subunit
NCBI Summary for hCGbeta	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 an 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. [provided by RefSeq, Jul 2008]
UniProt Comments for hCGbeta	CGB: Stimulates the ovaries to synthesize the steroids that are essential for the maintenance of pregnancy. Belongs to the glycoprotein hormones subunit beta family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Inhibitor; Secreted; Secreted, signal peptide Chromosomal Location of Human Ortholog: 19q13.32 Cellular Component: extracellular region Molecular Function: hormone activity Biological Process: cellular protein metabolic process; cell-cell signaling; apoptosis; peptide hormone processing; female gamete generation; signal transduction
Research Articles on hCGbeta	**1.** A complex neuroendocrine circuit exists in the retina, involving hCG secreting cells, hCG targets and hCG-release controlling cells.
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