# Choriogonadotropin Subunit Beta (CGB) Antibody – Mouse Monoclonal

## PRODUCT OVERVIEW

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| **Product Name** | Choriogonadotropin Subunit beta (CGB), Monoclonal Antibody |
| **Full Product Name** | Choriogonadotropin Subunit beta (hCG, CG-beta, Chorionic Gonadotrophin Chain beta, CGB, CGB3) (HRP) |
| **Product Gene Name** | anti-CGB antibody |
| **Clonality** | Monoclonal |
| **Isotype** | IgG1 |
| **Clone Number** | 12H20 |
| **Host** | Mouse |
| **Species Reactivity** | Human |
| **Form/Format** | Supplied as a liquid in PBS, pH 7.2. No preservative added. No stabilizing proteins added. Labeled with horseradish peroxidase (HRP). |
| **Purity/Purification** | Purified by DEAE Chromatography |
| **Specificity** | Recognizes Choriogonadotropin Subunit beta. Does not cross react with intact whole hCG or the alpha subunit. Cross-reactivity: Intact hCG: 0.5%; alpha-hCG: <0%; LH: <0%; FSH: <0%; TSH: <0%. |
| **Preparation and Storage** | Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Note: Sodium azide is a potent inhibitor of peroxidase and should not be added to HRP conjugates. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap. |
| **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** | Chorionic Gonadotropin, beta-subunit |
| **Conjugate** | HRP |
| **Affinity Constant** | 3x10e10 |
| **Product Categories/Family for anti-CGB antibody** | Antibodies; Hormones; Steroids |
| **Applications Tested/Suitable for anti-CGB antibody** | ELISA (EIA) |
| **Application Notes for anti-CGB antibody** | Applications are based on unconjugated antibody. |
| **Related Product Information for anti-CGB antibody** | MBS6128564 is an antibody targeting CGB. Also known as Choriogonadotropin Subunit beta (hCG, CG-beta, Chorionic Gonadotrophin Chain beta, CGB, CGB3) (HRP). Reactive in Human. Host: Mouse. |
| **Other Notes** | Small volumes of anti-CGB 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. |

## ADDITIONAL DETAILS

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

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| **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 |
| **Protein Family** | Choriogonadotropin |
| **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 CGB** | 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 CGB** | 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.<br><br>Protein type: Inhibitor; Secreted; Secreted, signal peptide<br><br>Chromosomal Location of Human Ortholog: 19q13.32<br><br>Cellular Component: extracellular region<br><br>Molecular Function: hormone activity<br><br>Biological Process: cellular protein metabolic process; cell-cell signaling; apoptosis; peptide hormone processing; female gamete generation; signal transduction |
| **Research Articles on CGB** | **1.** A complex neuroendocrine circuit exists in the retina, involving hCG secreting cells, hCG targets and hCG-release controlling cells. |

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