

## Product datasheet for **AM03067PU-N**

### **hCG beta (CGB3) Mouse Monoclonal Antibody [Clone ID: HCG-61]**

#### **Product data:**

<b>Product Type:</b>	Primary Antibodies
<b>Clone Name:</b>	HCG-61
<b>Applications:</b>	ELISA, IF
<b>Recommended Dilution:</b>	Suitable for Immunocytochemistry and ELISA.
<b>Reactivity:</b>	Human
<b>Host:</b>	Mouse
<b>Isotype:</b>	IgG2b
<b>Clonality:</b>	Monoclonal
<b>Immunogen:</b>	Human chorionic gonadotropin.
<b>Specificity:</b>	<p>The antibody HCG-61 reacts with beta-subunit of human chorionic gonadotropin, a 40 kDa hormone. hCG belongs to the glycoprotein hormone family together with lutropin (LH), follitropin (FSH) and thyrotropin (TSH). hCG is synthesised by trophoblastic cells of the placenta during pregnancy and stimulates the growth of corpus luteum.</p> <p>The HCG-61 antibody reacts with association constant <math>5.1 \times 10^{10}</math> l/mol.</p> <p>Following cross-reactivity (%) was determined by classic double-antibody RIA using unlabelled hormones: beta-hCG (77), alpha-hCG (1.3), hLH (0.86), hFSH (&lt; 0.5), hTSH (&lt; 0.5).</p>
<b>Formulation:</b>	<p>PBS, pH 7.4 15 mM sodium azide as preservative.</p> <p>State: Aff - Purified</p> <p>State: Liquid purified IgG fraction (&gt; 95% pure by SDS-PAGE).</p>
<b>Concentration:</b>	lot specific
<b>Purification:</b>	Protein A affinity chromatography.
<b>Conjugation:</b>	Unconjugated
<b>Storage:</b>	<p>Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.</p> <p>Avoid repeated freezing and thawing.</p>
<b>Stability:</b>	Shelf life: one year from despatch.
<b>Gene Name:</b>	chorionic gonadotropin beta subunit 3
<b>Database Link:</b>	<p><a href="#">Entrez Gene 1082 Human</a></p> <p><a href="#">P0DN86</a></p>



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**Background:** hCG is a protein of the molecular weight about 40 kDa. hCG belongs to the glycoprotein hormone family together with lutropin (LH), follitropin (FSH) and thyrotropin (TSH). hCG is synthesised by trophoblastic cells of the placenta during pregnancy and stimulates the growth of corpus luteum. The other hormones are produced by anterior pituitary gland. All these hormones are structurally related being composed of two noncovalently associated subunits  $\alpha$  and  $\beta$ .

**Synonyms:** Choriogonadotropin subunit beta, CGB, CGB3, beta hCG, hCG-beta