

## Product datasheet for **AM09302PU-N**

### **hCG (CGA) Mouse Monoclonal Antibody [Clone ID: HCG-1]**

#### **Product data:**

Product Type:	Primary Antibodies
Clone Name:	HCG-1
Applications:	ELISA
Recommended Dilution:	<b>ELISA:</b> This antibody can be used as capturer in Sandwich ELISA for quantitative determination of HCG in combination with HRP conjugated anti HCG beta subunit antibody (Cat.-No AM09303HR-N).
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Purified Human Chorionic Gonadotropin from urine
Specificity:	This antibody is reactive to Chorionic gonadotropinalpha (hCG-alpha).
Formulation:	0.01M PBS, pH 7.0 State: Aff - Purified State: Lyophilized purified IgG fraction
Reconstitution Method:	Restore with double distilled water to adjust the final concentration to 1,0 mg/ml
Purification:	Affinity Chromatography on Protein G
Conjugation:	Unconjugated
Storage:	Upon receipt, store (in aliquots) at -20°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	glycoprotein hormones, alpha polypeptide
Database Link:	<a href="#">Entrez Gene 1081 Human P01215</a>



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<b>Background:</b>	Human chorionic gonadotropin (hCG) is a glycoprotein hormone produced by placenta after conception. hCG is comprised of a $\alpha$ subunit with 92 amino acids and a $\beta$ subunit with 245 amino acids. The $\alpha$ subunit is identical to that of LH (Luteinizing hormone), FSH (Follicle-stimulating hormone) and TSH (Thyroid-stimulating hormone). hCG sustains corpus luteum, stimulates progesterone secretion, hence is critical to early foetus development. It has also been reported that hCG plays a role in the development of foetus's tolerance to maternal immunity. hCG is the most sensitive biomarker for pregnancy.
<b>Synonyms:</b>	Follitropin alpha chain, Follicle-stimulating hormone alpha chain, FSH-alpha, Lutropin alpha chain, Luteinizing hormone alpha chain, LSH-alpha, LH alpha, Thyrotropin alpha chain, Thyroid-stimulating hormone alpha chain, TSH-alpha, Choriogonadotropin alpha chain, Chorionic gonadotrophin subunit alpha, hCG-alpha
<b>Protein Families:</b>	Druggable Genome, ES Cell Differentiation/IPS, Secreted Protein
<b>Protein Pathways:</b>	Autoimmune thyroid disease, GnRH signaling pathway, Neuroactive ligand-receptor interaction