

Product datasheet for **SM2175P**

hCG beta (CGB3) (beta 2 epitope) Mouse Monoclonal Antibody [Clone ID: INN-hCG-22]

Product data:

Product Type:	Primary Antibodies
Clone Name:	INN-hCG-22
Applications:	ELISA, IHC, WB
Recommended Dilution:	Immunohistochemistry on paraffin sections. ELISA: 1:100 - 1:500. Western Blot: Non-reducing conditions.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	hCG. Spleen cells from an immunised BALB/c mouse were fused with cells of the mouse myeloma cell line P3 - NS1/1 - Ag 4.1.
Specificity:	This antibody shows strong reaction in RIA with hCG and b-hCG with some reactivity on hLH (12%) and b-hLH (34%). No reaction with hFSH, hTSH, a-hCG and a-hLH.
Formulation:	Containing 0.09% Sodium Azide State: Purified State: Liquid purified IgG
Concentration:	lot specific
Purification:	Ion exchange chromatography
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	chorionic gonadotropin beta subunit 3
Database Link:	Entrez Gene 1082 Human P0DN86



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Background:

Human chorionic gonadotropin (hCG) is a glycoprotein hormone produced by trophoblastic cells of the placenta beginning 10 to 12 days after conception. Maintenance of the fetus in the first trimester of pregnancy requires the production of hCG, which binds to the corpus luteum of the ovary which is stimulated to produce progesterone which in turn maintains the secretory endometrium. hCG is present only in trace amounts in non pregnant urine and sera. It rises sharply during pregnancy. HCG is composed of two non identical, non covalently linked polypeptide chains designated as the a and b subunits. The a subunit of HCG is nearly identical to that of thyroid stimulating hormone (TSH), follicle stimulating hormone (FSH) and luteinizing hormone (LH). A germ cell tumor which is positive for cytokeratin, placental alkaline phosphatase (PLAP) and HCG but negative for EMA and AFP is probably a choriocarcinoma.

Synonyms:

Choriogonadotropin subunit beta, CGB, CGB3, beta hCG, hCG-beta