



Product Information Sheet

Monoclonal Anti- Human Chorionic gonadotropin (β-subunit), β-HCG	
Catalogue No. MA1111	Immunogen
	Purified human Chorionic Gonadotropin.
Lot No. 11110Y1188	Purification
	Purified by Protein A affinity chromatography.
Clone: HCG-8	Application
	Immunohistochemistry(P)
lg type: mouse lgG1	At 2µg/ml to detect β HCG in formalin fixed and paraffin embedded
	tissues.
Size: 100µg/vial	Other applications have not been tested.
	Optimal dilutions should be determined by end user.
Specificity	Formulation
Human.	Lyophilized from 1.2% sodium acetate, with 2mg BSA and 0.01mg
No cross reactivity with other	NaN ₃ as preservative.
Proteins (hLH, hTSH, or hFSH).	Reconstitution
	Neutral PBS or distilled water. If 1ml of PBS is used, the antibody
Recommended application	concentration will be 100µg/ml.
Immunohistochemistry(P)	Storage
To reorder contact us at:	At -20°C for one year. After reconstitution, at 4°C for one month. It
Antagene, Inc.	can also be aliquotted and stored frozen at -20°C for longer time.
Toll Free: 1(866)964-2589	
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BACKGROUND

 β -HCG (β -Human Chorionic Gonadotropin), also termed as Chorionic Gonadotropin, Beta Chain (CGB). It is encoded by a multigene cluster composed of six homologous sequences. And in the family of beta-containing glycoprotein hormones, β -HCG is unique in that it contains an extension of 29 amino acids at its COOH end. β -HCG is mapped to 19q13.32 and expressed in trophoblast and various malignant tumors promotes cellular motility in vivo. β -HCG has a novel function in uterine adaptation to early pregnancy as well as in tumor development and underline the importance of HCG as an as yet unrecognized angiogenic factor.

REFERENCE

1. Bo, M.; Boime, I. : Identification of the transcriptionally active genes of the chorionic gonadotropin beta gene cluster in vivo. *J. Biol. Chem.* 267: 3179-3184, 1992.)

2. Policastro, P.; Ovitt, C. E.; Hoshina, M.; Fukuoka, H.; Boothby, M. R.; Biome, I. : The beta-subunit of human chorionic gonadotropin is encoded by multiple genes. *J. Biol. Chem.* 258: 11492-11499, 1983.

3. Zygmunt, M.; Herr, F.; Keller-Schoenwetter, S.; Kunzi-Rapp, K.; Munstedt, K.; Rao, C. V.; Lang, U.; Preissner, K. T. : Characterization of human chorionic gonadotropin as a novel angiogenic factor. *J. Clin. Endocr. Metab.* 87: 5290-5296, 2002.

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