



**Product Information Sheet** 

<b>Monoclonal Anti-</b> 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)
<b>lg type:</b> mouse lgG1	At 2µg/ml to detect $\beta$ HCG in formalin fixed and paraffin embedded
	tissues.
<b>Size:</b> 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 <sub>3</sub> 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	
email: Info@antageneinc.com	

## BACKGROUND

 $\beta$ -HCG ( $\beta$ -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,  $\beta$ -HCG is unique in that it contains an extension of 29 amino acids at its COOH end.  $\beta$ -HCG is mapped to 19q13.32 and expressed in trophoblast and various malignant tumors promotes cellular motility in vivo.  $\beta$ -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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