



Product Information Sheet

Monoclonal Anti-Human Chorionic gonadotropin (β -subunit), β -HCG (Magnetic Bead conjugate)

Catalogue No. MA1111-M

Immunogen

Purified human Chorionic Gonadotropin.

Lot No. 11110Y1188

Purification

Clone: HCG-8

Purified by Protein A affinity chromatography.

Ig type: mouse IgG1

Formulation

Each vial contains 1mg/ml Magnetic Bead in PBS, pH 7.2, 0.05mg NaN_3 .

Size: 200 μ l

Storage

Specificity

Store at 4°C for frequent use.

Human.

No cross reactivity with other

Proteins (hLH, hTSH, or hFSH).

Description

This Antagene antibody is immobilized by the covalent reaction of hydrazinonicotinamide-modified antibody with formylbenzamide-modified beads. It is useful for immunoprecipitation.

Recommended application

Immunoprecipitation(IP)

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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Contact: **Antagene, Inc.** | Tel: 1 (866) 964-2589 | Fax: 1 (888) 225-1868 | Email: Info@antageneinc.com