Beta HCG
clone HCG 205

Instructions For Use

Specification:
Human chorionic gonadotropin (HCG) is an oligosaccharide glycopeptide hormone (244 aa) produced in pregnancy that is made by the embryo soon after conception and later by the syncytiotrophoblast (part of the placenta). Its role is to prevent the disintegration of the corpus luteum of the ovary and thereby maintain progesterone production that is critical for a pregnancy in humans. Human Chorionic Gonadotropin may have additional functions; for instance, it is thought that HCG affects the immune tolerance of the pregnancy. Early pregnancy testing, in general, is based on the detection or measurement of HCG. HCG is composed of two non-identical, non-covalently linked polypeptide chains as α and β-subunits. The α subunit of HCG is nearly identical to that of thyroid stimulating (TSH), FSH, and LH.A germ cell tumor which is + for Cytokeratin, PLAP, and HCG but negative for EMA and alpha feto protein is probably choriocarcinoma.

Availability:

Catalog No.	Contents	Volume
ILM 11720 C1		1,0 ml concentrate
ILM 11720 C05		0,5 ml concentrate
ILM 11720 C01		0,1 ml concentrate

Intended use: For In Vitro Diagnostic Use (IVD)

Reactivity: Human

Clone: HCG 205

Species of origin: Mouse

Isotype: IgG_1/κ

Control Tissue: Human placenta, choriocarcinoma

Staining: Cytoplasmic

Immunogen:.Purified β HCG

Presentation: Concentrated antibody supplied in PBS with 1% BSA, 0.05% azide, pH 7.4

Application and suggested dilutions:
Pretreatment: Heat induced epitope retrieval in 10 mM citrate buffer , pH6.0, or in 50 mM Tris buffer pH9.5, for 20 minutes is required for IHC staining on formalin-fixed, paraffin embedded tissue sections.

- Immunohistochemical staining of cryostat tissue sections (dilution up to 1:50-1:100)
- Immunohistochemical staining of formalin-fixed, paraffin embedded tissue section (dilution up to 1:50-1:100)

The optimal dilution for a specific application should be determined by the investigator.

- Ready-to-use: Apply the prediluted antibody and incubate for 30-60 minutes at room temperature.

Note: Dilution of the antibody in 10% normal goat serum followed by a goat anti-mouse secondary antibody based detection is recommended

Storage & Stability: Store at 2-8 °C. Do not use after expiration date printed on the vial.

References:

1) Mehta H C et. al. Clin Chim Acta, 121: 245-250, 1982
2) Morrish, D W, et. al. J Histochem Cytochem, 35: 93-101, 1987.