ImmunoBioScience Corp. (IBSC) *DATA SHEET*

Chorionic Gonadotropin Human (βHCG), Mouse MAb anti-human

**Catalog number:** MM-1005-01 0.5 ml Concentrated IgG1 0.2 mg/ml

MM-1005-02 1.0 ml Concentrated. IgG1 0.2 mg/ml

MM-1005-04 7.0 ml Prediluted for IHC IgG1 ~5µg/ml

**Buffer:** The concentrated antibodies are supplied in PBS with 1% BSA, 0.05% azide, pH 7.4. The Prediluted antibody is supplied in our Universal antibody dilution buffer (AR-6526) green in color.

**Description**: 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

**Intended Use**: Immunohistochemistry (IHC) and Immunocytchemistry (ICC)

**Storage: 2-8°C**

**Clone**: HCG 205 **Isotype:** IgG1/κ

**Epitope: not determined** **Molecular weight of antigen:** 22 kDa

**Immunogen:**.Purified β HCG

**Species reactivity:** Human, others –not-tested.

**Cellular Localization: Cytoplasmic**

**Recommended positive control:** Human placenta, choriocarcinoma

**Application:** IHC, ICC (frozen or formalin–fixed paraffin-embedded (FFPE) tissue sections, cell smears.

For IHC dilute conc. antibodies 1:50-1:100, use streptavidin~biotin system or polymer system, incubate 30 minutes at room temperature.

Prediluted antibody is ready to be used for IHC.

Antigen retriever like citrate enhances the staining of FFPE tissue sections (boil tissue in 10 mM citrate, pH 6.0 for 10-15 minutes followed by cooling for 10-15 minutes at RT. The optimum dilution should be determined by the individual lab.

**General 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.

**Limitation and warranty:** Our warranty is limited to the actual price paid for the product. We are not liable for any property damage, personnel injury, time, effort or economic loss due to our product.

**MSDS:** This product contains 0.05 % sodium azide as a preservative, appropriate care should be taken in handling. National Institute of Occupational Safety and Health has warning that sodium azide can react with lead, copper, brass or solder in the plumbing system and forms hydrazoic acid in acidic condition. Discard with copious amount of water. Avoid skin and eye contact with all laboratory products. Use appropriate lab. gear, lab coat, gloves and safety glasses. Do not ingest any lab. products. This product is not approved for administration in human or animals.

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