Thermo SCIENTIFIC

RESEARCH USE ONLY DATA SHEET
Rev 120911E

Chorionic Gonadotropin, Human (HCG) Ab-5 (Clone CG04 + CG05)

Mouse Monoclonal Antibody

Cat. #MS-1065-P0, -P1, or -P (0.1ml, 0.5ml, or 1.0ml at 200μg/ml) (Purified with BSA and Azide)
Cat. #MS-1065-P1ABX or -PABX (0.1ml or 0.2ml at 1.0mg/ml) (Purified without BSA and Azide)
Cat. #MS-1065-R7 (7.0ml) (Ready-to-Use for Immunohistochemistry)
Cat. #MS-1065-PCS (5 Slides) (Positive Control for Histology)

Please note this data sheet has been changed effective December 9, 2011

Description: Human Chorionic Gonadotropin (HCG) is a glycoprotein, which is secreted in large quantities by normal trophoblasts. It is present only in trace amounts in non-pregnant urine and sera but rises sharply during pregnancy. HCG is composed of two non-identical, non-covalently linked polypeptide chains designated as the α- and β-subunits. The α-subunit of HCG is nearly identical to that of thyroid stimulating hormone (TSH), follicle stimulating hormone (FSH), and luteinizing hormone (LH). A germ cell tumor which is positive for cytokeratin, placental alkaline phosphatase (PLAP), and HCG but negative for EMA and AFP is probably a choriocarcinoma.

Comments: Ab-5 is designed for sensitive detection of hCG in routine formalin-fixed, paraffin-embedded tissues.

Mol. Wt. of Antigen: 22kDa (β-HCG)

Species Reactivity: Human. Others-not known.

Clone Designation: CG04 + CG05

Ig Isotype / Light Chain: IgG_{2a} / κ + IgG_1 / κ

Immunogen: Purified β-subunit of HCG.

Applications and Suggested Dilutions:

- Wesern Blotting (Not optimum)
- Immunohistology (Formalin/paraffin)
  (Use Ab at 1-2μg/ml for 30 minute at RT)

* (Staining of formalin/paraffin tissues is ENHANCED by boiling tissue sections in 10mM citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 min.)

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

Positive Control: Placenta or choriocarcinoma.

Cellular Localization: Cytoplasmic

Storage and Stability:
Ab with sodium azide is stable for 24 months when stored at 2-8°C. Antibody WITHOUT sodium azide is stable for 36 months when stored at below 0°C.

Supplied As:
200μg/ml of antibody purified from ascites fluid by Protein A+ G chromatography. Prepared in 10mM PBS, pH 7.4, with 0.2% BSA and 0.09% sodium azide. Also available without BSA and azide at 1mg/ml,

or

Prediluted antibody which is ready-to-use for staining of formalin-fixed, paraffin-embedded tissues.

Suggested References:

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

Limitations and Warranty:
Our products are intended FOR RESEARCH USE ONLY and are not approved for clinical diagnosis, drug use or therapeutic procedures. No products are to be construed as a recommendation for use in violation of any patents. We make no representations, warranties or assurances as to the accuracy or completeness of information provided on our data sheets and website. Our warranty is limited to the actual price paid for the product. Lab Vision is not liable for any property damage, personal injury, time or effort or economic loss caused by our products.

Material Safety Data:
This product is not licensed or approved for administration to humans or to animals other than the experimental animals. Standard Laboratory Practices should be followed when handling this material. The chemical, physical, and toxicological properties of this material have not been thoroughly investigated. Appropriate measures should be taken to avoid skin and eye contact, inhalation, and ingestion. The material contains 0.09% sodium azide as a preservative. Although the quantity of azide is very small, appropriate care should be taken when handling this material as indicated above. The National Institute of Occupational Safety and Health has issued a bulletin citing the potential explosion hazard due to the reaction of sodium azide with copper, lead, brass, or solder in the plumbing systems. Sodium azide forms hydrazoic acid in acidic conditions and should be discarded in a large volume of running water to avoid deposits forming in metal drainage pipes.

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