Chorionic Gonadotropin, Human (HCG) Ab-2
Rabbit Polyclonal Antibody
Cat. #RB-059-A0, -A1, or -A (0.1ml, 0.5ml, or 1.0ml)
Cat. #RB-059-R7 (7.0ml) (Ready-to-Use for Immunohistochemical Staining)
Cat. #RB-059-PCS (5 Slides) (Positive Control for Histology)

**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.

**Mol. Wt. of Antigen:** 22kDa (β-HCG)

**Species Reactivity:** Human. Others-not known.

**Immunogen:** Purified β-subunit of HCG.

**Applications and Suggested Dilutions:**
- Immunohistology (Formalin-fixed)
  (Use Ab at 1:50-1:100 for 30 minute at RT)
  * [Staining of formalin/paraffin tissues **REQUIRES** digestion of tissue sections with pepsin at 1mg/ml Tris-HCl, pH 2.0 for 15 min at RT or 10 min at 37°C(Cat. #AP-9007)]

The optimal dilution for a specific application under a given set of experimental conditions should be determined by the investigator.

**Positive Control:** Placenta or choriocarcinoma.

**Cellular Localization:** Cytoplasmic

**Supplied As:**
- Purified antibody fraction from rabbit anti-serum. Prepared in 10mM PBS, pH 7.4, with 0.2% BSA and 0.09% sodium azide,
- or
- Prediluted antibody which is ready-to-use for staining of formalin-fixed, paraffin-embedded tissues.

**Storage and Stability:**
Store vial at 4°C. When stored at 2-8°C, this antibody is stable for 24 months.

**Suggested References:**

**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. NeoMarkers makes 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 price paid for the product. NeoMarkers 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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