

# hCG- $\beta$ Antibody

## *Purified*

### Monoclonal Antibody

#### Product Information

**Product No.:** C103

**Clone:** 152

**RRID:** AB\_2737449

**Isotype:** Mouse IgG

**Storage:** Sterile 2 to 8°C

### Product Description

#### Specificity:

Mouse Anti-Human Chorionic Gonadotropin (hCG (Clone 152) recognizes Human Chorionic Gonadotropin (hCG). This monoclonal antibody was purified using multi-step affinity chromatography methods such as Protein A or G depending on the species and isotype.

#### Background:

Human chorionic gonadotropin (hCG) is a peptide hormone 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. hCG may have additional functions, for instance it is thought that it affects the immune tolerance of the pregnancy. Early pregnancy testing generally is based on the detection or measurement of hCG. hCG interacts with the LHCG receptor and promotes the maintenance of the corpus luteum during the beginning of pregnancy causing it to secrete the hormone progesterone. Progesterone enriches the uterus with a thick lining of blood vessels and capillaries so that it can sustain the growing fetus. Due to its highly negative charge hCG may repel the immune cells of the mother, protecting the fetus during the first trimester. It has also been suggested that hCG levels are linked to the severity of morning sickness in pregnant women. Because of its similarity to LH, hCG can also be used clinically to induce ovulation in the ovaries as well as testosterone production in the testes. As the most abundant biological source is women who are presently pregnant, some organizations collect urine from gravidae to extract hCG for use in fertility treatment.

#### Known Reactivity Species:

Human

#### Format:

Purified No Carrier Protein

#### Immunogen:

Purified Recombinant Human Chorionic Gonadotropin (hCG) Beta (>98%)

#### Formulation

This purified antibody is supplied in 0.05 M phosphate buffered saline (PBS), pH 7.3 - 7.5, containing 0.1% sodium azide. as a preservative.

#### Storage and Stability

This Purified Antibody is stable when stored at 2° to 8°C. **Do not freeze.**

#### Country of Origin

USA