**DESCRIPTION**

**Species Reactivity**  Human

**Specificity**  Detects human Chorionic Gonadotropin, α Chain (α HCG) in direct ELISAs and Western blots. In direct ELISAs and Western blots, no cross-reactivity with recombinant human FSH β or recombinant rat FSH β is observed.

**Source**  Monoclonal Mouse IgG2A Clone # 381012

**Purification**  Protein A or G purified from hybridoma culture supernatant

**Immunogen**  Mouse myeloma cell line NS0-derived recombinant human Chorionic Gonadotropin, α Chain (α HCG)

**Accession #**  P01215

**Formulation**  Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details.

*Small pack size (-SP) is supplied either lyophilized or as a 0.2 μm filtered solution in PBS.

**APPLICATIONS**

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

<table>
<thead>
<tr>
<th>Sample</th>
<th>Recommended Concentration</th>
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<tr>
<td>Recombinant Human Chorionic Gonadotropin, α Chain (α HCG)</td>
<td>1 μg/mL</td>
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**DATA**

**Immunohistochemistry**  Chorionic Gonadotropin, α Chain (α HCG) in Human Placenta. Chorionic Gonadotropin, α Chain (α HCG) was detected in immersion fixed paraffin-embedded sections of human placenta using Mouse Anti-Human Chorionic Gonadotropin, α Chain (α HCG) Monoclonal Antibody (Catalog # MAB4169) at 15 μg/mL overnight at 4 °C. Tissue was stained using the Anti-Mouse HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS002) and counterstained with hematoxylin (blue). Lower panel shows a lack of labeling if primary antibodies are omitted and tissue is stained only with secondary antibody followed by incubation with detection reagents. View our protocol for Chromogenic IHC Staining of Paraffin-embedded Tissue Sections.

**PREPARATION AND STORAGE**

**Reconstitution**  Reconstitute at 0.5 mg/mL in sterile PBS.

**Shipping**  The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C

**Stability & Storage**  Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution.
- 6 months,-20 to -70 °C under sterile conditions after reconstitution.

**BACKGROUND**

Human Chorionic Gonadotropin, α chain (CGA) is a 92 aa glycopeptide that functions as the shared α subunit of the heterodimeric peptide hormones choriongonadotropin, leutinizing hormone, thyroid stimulating hormone, and follicle stimulating hormone. CGA circulates as a free molecule and in noncovalent complexes with the unique β subunits of those hormones. CGA is secreted by the pituitary and placenta. Mature human CGA shares 69%-73% aa sequence identity with canine, equine, feline, mouse, porcine, and rat CGA.