

AM50278PU-N**Monoclonal Antibody to Glycoprotein hormones alpha chain - Purified**

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| Alternate names: | Anterior pituitary glycoprotein hormones common subunit alpha, Choriogonadotropin alpha chain, Chorionic gonadotrophin subunit alpha, FSH-alpha, Follicle-stimulating hormone alpha chain, Follitropin alpha chain, LH alpha, LSH-alpha, Luteinizing hormone alpha chain, Lutropin alpha chain, TSH-alpha, Thyroid-stimulating hormone alpha chain, Thyrotropin alpha chain, hCG-alpha |
| Quantity: | 0.2 mg |
| Concentration: | 0.2 mg/ml |
| Background: | 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 is identical to that of thyroid stimulating hormone (TSH), follicle stimulating hormone (FSH), and luteinizing hormone (LH). |
| Uniprot ID: | P01215 |
| NCBI: | NP_000726.1 |
| GeneID: | 1081 |
| Host / Isotype: | Mouse / IgG1 |
| Recommended Isotype Controls: | SM10P (for use in human samples), AM03095PU-N |
| Clone: | HCG α /53 |
| Immunogen: | Recombinant hCG alpha protein. Genename: CGA |
| Format: | State: Liquid purified IgG fraction from Bioreactor Concentrate Purification: Proten A/G Chromatography Buffer System: 10mM PBS Preservatives: 0.05% Sodium Azide Stabilizers: 0.05% BSA |
| Applications: | ELISA: Use BSA free Antibody for coating. Western Blotting: 0.5-1 μ g/ml. Immunohistochemistry on Formalin-Fixed Paraffin Sections: 0.5-1 μ g/ml for 30 minutes at RT. Staining of formalin-fixed tissues requires boiling tissue sections in 10mM citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes. Positive Control: Placenta. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user. |
| Molecular Weight: | ~13kDa |

- Specificity:** This MAb reacts with a protein of ~13kDa, identified as alpha sub-unit of HCG. 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 is identical to that of thyroid stimulating hormone (TSH), follicle stimulating hormone (FSH), and luteinizing hormone (LH).
Cellular Localization: Cytoplasmic, secreted.
Species: Human.
Other species not tested.
- Storage:** Store undiluted at 2-8°C.
Shelf life: one year from despatch.
- General Readings:** 1. McDonald EA, Wolfe MW. Adiponectin attenuation of endocrine function within human term trophoblast cells. *Endocrinology*. 2009 Sep;150(9):4358-65. doi: 10.1210/en.2009-0058. Epub 2009 Jun 11. PubMed PMID: 19520781.
- Pictures:** Formalin-Fixed, Paraffin-Embedded Human placenta stained with hCG alpha Antibody Cat.-No AM50278PU (Clone HCG α /53). Note specific membrane staining.

