

Anti-hCG Alpha (GOAT) Antibody

hCG Alpha chain Antibody Catalog # ASR5098

Specification

Anti-hCG Alpha (GOAT) Antibody - Product Information

Host Goat

Conjugated Unconjugated

Target Species
Reactivity
Human
Clonality
Application
Human
Polyclonal
WB, E, I, LCI

Application Note Anti-Human Chorionic Gonadotropin (hCG)

Alpha Antibody has been tested in ELISA and WB. Expect a band at ~14.9kDa for the alpha chain in western blot using appropriate tissues and lysates. ELISA reactivity expected against alpha hCG with

an expected titer of \sim 1:100,000 and full hCG at \sim 1:50,000 dilution.

Physical State Liquid (sterile filtered)

Buffer 0.02 M Potassium Phosphate, 0.15 M

Sodium Chloride, pH 7.2

Immunogen Anti-Human Chorionic Gonadotropin Alpha

Antibody was prepared from whole goat

serum produced by repeated immunizations with Hu Chorionic Gonadotropin Alpha Subunit protein.

Preservative 0.01% (w/v) Sodium Azide

Anti-hCG Alpha (GOAT) Antibody - Additional Information

Gene ID 1081

Other Names 1081

Purity

This affinity purified antibody is directed against hCG alpha. This product was affinity purified from monospecific antiserum by immunoaffinity purification. This product reacts with Full Human Chorionic Gonadotropin (hCG) and Human Chorionic Gonadotropin Alpha chain (α -hCG).

Storage Condition

Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

Precautions Note

This product is for research use only and is not intended for therapeutic or diagnostic applications.



Anti-hCG Alpha (GOAT) Antibody - Protein Information

Name CGA

Function

Shared alpha chain of the active heterodimeric glycoprotein hormones thyrotropin/thyroid stimulating hormone/TSH, lutropin/luteinizing hormone/LH, follitropin/follicle stimulating hormone/FSH and choriogonadotropin/CG. These hormones bind specific receptors on target cells that in turn activate downstream signaling pathways.

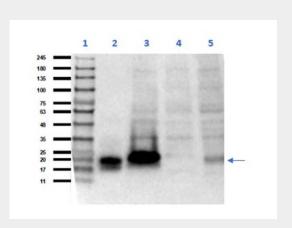
Cellular Location Secreted

Anti-hCG Alpha (GOAT) Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-hCG Alpha (GOAT) Antibody - Images



Western Blot of Goat Anti-Human Chorionic Gonadotropin Alpha Antibody. Lane 1: Opal Prestained Molecular Weight Marker (p/n MB-210-0500). Lane 2: alpha hCG (0.05 μ g) [+]. Lane 3: alpha hCG/U-20S WCL (p/n W09-001-374) (0.05 μ g/20 μ g) [+]. Lane 4: U-20S WCL (p/n W09-001-374) (20 μ g) [-]. Lane 5: HeLa WCL (p/n W09-000-364) (35 μ g) [+]. Primary Antibody: Anti- α -hCG at 1:1000 overnight at 2-8°C. Secondary Antibody: Donkey Anti-Goat IgG mx8 HRP Conjugated (p/n 605-703-125-0025) at 1:40,000 for 30 mins at RT. Block: BlockOut Buffer (p/n MB-073). Exposure: 30 sec. Predicted MW: alpha subunit ~14.9kDa, full hCG ~37kDa, luteinizing hormone (LH) ~29kDa, thyroid stimulating hormone (TSH) ~28kDa, follicle stimulating hormone (FSH) ~30kDa. Observed MW: alpha subunit ~15-20kDa, full hCG ~35kDa.

Anti-hCG Alpha (GOAT) Antibody - Background





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Human Chorionic Gonadotropin (hCG) is a member of the glycoprotein hormone family which includes lutropin, follitropin, and thyrotropin. These hormones are heterodimers consisting of a common alpha subunit, and a unique beta chain which confers their biological specificity to the hormones. These hormones bind specific receptors on target cells that in turn activate downstream signaling pathways. HCG is secreted in large quantities by normal trophoblasts. Its presence is in trace amounts in non-pregnant urine and sera but rises sharply during pregnancy. CGA is extracellular and secreted, expressed in over 90 organs, but has its highest expression level in placenta. Anti-hCG alpha detects hCG alpha in human cells and tissue and could be useful in detecting cells and tumors of trophoblastic origin such as choriocarcinoma. Anti-hCG Antibody is useful for researchers interested in pregnancy, hormone research, and cancer research.