



Peninsula Laboratories, LLC

A Member of the Bachem Group

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Monoclonal Antibody To Human beta-HCG Human Chorionic Gonadotropin

Monoclonal antibody h 6 recognizes β -HCG, a well defined oncofetal protein of 36.7 kDa m.w. associated with pregnancy and some cancers. Raised serum levels for HCG are found in teratogenic carcinomas and trophoblastic tumors and occasionally in gastrointestinal, urogenital, bronchial or mammary carcinomas, and in lymphomas.

Product Number: T-1322

Clone: h 6

Host species, isotype: Mouse IgG1

Quantity: 200 μ g

Format: Affinity purified, lyophilized

Reconstitute by adding 0.5ml distilled water. This stock solution contains 0.4mg/ml IgG, phosphate buffered saline pH 7.2 (PBS), 10mg/ml bovine serum albumin (BSA) as a stabilizer and 0.01% thimerosal as a preservative.

Stability: Original vial: 1 year at 4° - 8°C

Stock solution or aliquots thereof: 1 year at -20°C. Avoid repeated thawing and freezing.

Applications: Tested for immunohistochemistry (IHC), has been described to work in ELISA.

Approximate working dilution for IHC:

Frozen sections: 0.1 μ g/ml (1:4000)

Paraffin sections: 0.1 μ g/ml (1:4000); microwave pretreatment for antigen retrieval is recommended.

Optimal dilutions should be determined by the end user.

Suggested positive control: Human placenta. **Antigen, epitope:**

Human gonadotropin is a glycoprotein of 36.7kDa consisting of two subunits. The α -chain (MW 14.5 kD) is common to three other glycoprotein hormones (TSH, FSH, LH) whereas the β -chain (22.2kD) is more different. The β -chain of HCG and LH (lutrophin) have sequence homology in the first 112 amino acids and differ at the C-terminal end consisting of 24 amino acids.



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Selected references

Birken, S., Chemistry of human choriogonadotrophin. *Ann Endocrinol (Paris)* 45:297-305 (1984)

Carreiro-Lewandowski, E., Pregnancy testing: detection of human chorionic gonadotrophin (HCG). *J Med Technol* 3: 437-476 (1986)

Lange, P.H., Testicular tumor markers. *Lab Manag* 18:27-32 (1980)

Rinker, A.D., W. Tietze, β -HCG vs intact hCG assays in the detection of trophoblastic diseases. *Clin Chem* 35: 1799-1800 (1989)

Gaspard, U.J., A.M. Reuter, J.-L. Deville, Y. Vrindts-Gevaert, K.D. Bagshawe, P. Franchimont. Serum concentration of human chorionic gonadotrophin and its alpha and beta subunits. 2. Trophoblastic tumors. *Clin Endocrin* 13: 319-329 (1980)

Stähli, C., V. Miggiano, J. Stocker, Th. Staehelin, P. Häring, B. Takacs. Distinction of epitopes by monoclonal antibodies. *Methods Enzymol* 92: 242-253 (1983).

For in vitro research only. Caution: this product contains thimerosal, a poisonous and hazardous substance.