



# ANOGEN - A Division of YES Biotech Laboratories Ltd.

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## Mouse Anti-hCG- $\alpha$ Monoclonal Antibody Datasheet

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| <b>Product Name:</b> mAb anti-hCG- $\alpha$  | <b>Clone No.:</b> CH7  |
| <b>Catalogue No.:</b> MO-M40010B   | <b>Quantity:</b> 0.5 mg/vial   |
| <b>Description:</b> Mouse monoclonal antibody to human chorionic gonadotropin alpha subunit (hCG- $\alpha$ ) | <b>Background:</b> Human chorionic gonadotropin (hCG) is a glycoprotein hormone produced by placenta after conception. hCG is comprised of a $\alpha$ subunit with 92 amino acids and a $\beta$ subunit with 245 amino acids. The $\alpha$ subunit is identical to that of LH (Luteinizing hormone), FSH (Follicle stimulating hormone) and TSH (Thyroid stimulating hormone). hCG sustains corpus luteum, stimulates progesterone secretion, hence is critical to early fetal development. It has also been reported that hCG plays a role in the development of fetal tolerance to maternal immunity. hCG is the most sensitive biomarker for pregnancy. |
| <b>Purification:</b> Protein G affinity purified   |  |
| <b>Product Type:</b> Primary antibody  |  |
| <b>Target Protein:</b> hCG- $\alpha$   |  |
| <b>Immunogen:</b> Purified human chorionic gonadotropin  |  |
| <b>Fusion Myeloma:</b> Sp2/0-Ag14  |  |
| <b>Specificity:</b> Reactive to hCG- $\alpha$  |  |
| <b>Species Reactivity:</b> Human, others not tested  |  |
| <b>Host / Isotype:</b> Mouse, IgG1 Kappa   | <b>Applications:</b> ELISA   |
| <b>Formulation:</b> Lyophilized from a solution in 0.01M PBS, pH 7.2   | Affinity purification of HCG   |
| <b>Reconstitution:</b> Double distilled water is recommended to adjust the final concentration to 1.00mg/mL. | Immuno-precipitation   |
| <b>Storage:</b> Store at -20°C   | <b>References:</b> If research is published using this product, please inform Anogen in order to cite the reference on this datasheet. Anogen will provide one unit of product in the same category as gratitude.  |
| <b>Research Area:</b> Hormone, pregnancy   |  |

This product is for LABORATORY RESEARCH USE and further manufacture ONLY, and cannot be administered to human and animals for use in diagnostic and therapeutic procedures.

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