

Mouse Anti-Human Chorionic Gonadotropin

CatNo **K009**

(hCG) monoclonal

BatchNo: See Label

Expiration Date: See Label

Storage: 2-8°C for 1 month
-20°C for longer

Background:	hCG is a 40 kDa glycoprotein composed of two subunits, α and β . The α subunit is common for hCG, LH, follicle stimulating hormone (FSH), and thyroid stimulating hormone (TSH), while the β subunit is unique for hCG although its amino acid sequence partially is identical with that of the β subunit of LH. hCG is the most important marker of gestational trophoblastic cells, being present in syncytiotrophoblastic cells and cells of the intermediate trophoblast but absent in cytotrophoblasts. hCG expression has also been demonstrated in some non-trophoblastic tumours, e.g. in 14% of patients with hepatocellular carcinoma. In pregnancy, the serum hCG concentration increases at an exponential rate initially, then peaks at around 100 kIU/L at about the tenth week after conception. The concentration decreases about tenfold over the next several weeks followed by a small increase near term.	
Clone Number:	SC1	
Volume/Quantity:	0.5 mg	
Product Form:	Purified IgG - liquid	
Preparation:	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant	
Buffer:	Phosphate buffered saline pH7.0	
Preservatives Stabilisers:	0.02% Sodium Azide (NaN ₃)	
Approx. Protein Concentrations:	IgG concentration 6,73 mg/ml	
Immunogen:	Human Chorionic Gonadotropin (hCG)	
Fusion Partners:	Spleen cells from immunised BALB/c mice were fused with cells of the P3X63.Ag8.653 mouse myeloma cell line	
Isotype:	IgG1 (Mouse)	
Specificity:	Intact hCG	100%
	Beta-hCG	100%
	Alpha-hCG	0.0%
	LH	0.3%
	TSH	0.2%
	FSH	0.8%

Applications:

Suggested Working Dilution

FlowCytometry	Not tested	
Immunohistology-frozen	Yes	1/500 – 1/1000
Immunohistology-paraffin	Yes	1/500 – 1/1000
Immunohistology-resin	Not tested	
ELISA	Not tested	
Immunoprecipitation	Not tested	
Western Blotting	Not tested	
Radioimmunoassay	Not tested	

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

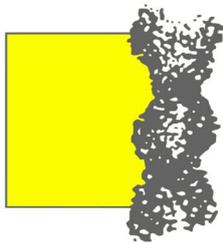
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Manufacturer

BIOZOL

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Immunohistology

Positive Control Tissue: Placenta
Recommended Secondary Reagents: F(ab')₂ rabbit anti-mouse IgG HRP conjugate - (LINARIS CatNo LST0013B)
Vectastain[®] ABC Mouse IgG (Vector CatNo AK-5002) and Substrate-Kit e.g. Vector[®] Red (Vector CatNo SK-5100).
Vectastain[®] ABC-Elite Mouse IgG (Vector CatNo PK-6102) and Peroxidase Substrate-Kit e.g. DAB (LINARIS CatNo E108) or HistoGreen (LINARIS CatNo E109).
Recommended Negative Controls: Mouse IgG1 Negative Control (LINARIS CatNo ITC0928)

Storage Conditions: Store at 2-8°C for one month or at -20°C for longer!
Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.
Shelf Life: 12 months from date of despatch.
Health and Safety Information: (A full Health and Safety assessment is available upon request)
This product contains sodium azide: a POISONOUS and HAZARDOUS SUBSTANCE which should be handled by trained staff only.

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For Research purposes only. Not for therapeutic or diagnostic use.

