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DATA SHEET

Mouse Anti-HCG Intact/Holo [HCGab/52]: MC0798, MC0798RTU7

Intended Use: For Research Use Only

Description: This antibody is a very special because it reacts ONLY with the intact-HCG and not with either free alpha- or free beta-chain of HCG. HCG is a glycoprotein and is composed of two non-identical, non-covalently linked polypeptide chains designated as the alpha and beta subunits. The alpha subunit is identical to that of thyroid stimulating hormone (TSH), follicle stimulating hormone (FSH), and luteinizing hormone (LH). HCG 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 antibody detects cells and tumors of trophoblastic origin such as choriocarcinoma. Large cell carcinoma and adenocarcinoma of the lung demonstrate anti-hCG positivity in 90% and 60% of cases respectively. 20% of lung squamous cell carcinomas are positive. HCG expression by non-trophoblastic tumors may indicate aggressive behavior.

Specifications

Clone:	HCGab/52
Source:	Mouse
Isotype:	IgG1k
Reactivity:	Human
Localization:	Cytoplasm, secreted
Formulation:	Antibody in PBS pH7.4, containing BSA and ≤ 0.09% sodium azide (NaN3)
Storage:	Store at 2°- 8°C
Applications:	IHC

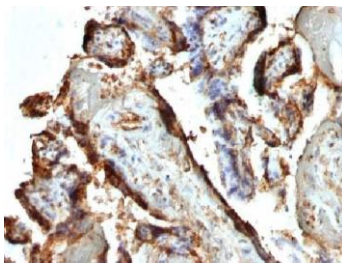
Package:

Description	Catalog No.	Size
HCG Intact/ Concentrated	MC0798	1 ml
HCG Intact/ Prediluted	MC0798RTU7	7 ml

IHC Procedure*

Positive Control Tissue:	JAR or TT Cells. Placenta
Concentrated Dilution:	50-200
Pretreatment:	Citrate pH6.0, 15 minutes using Pressure Cooker, or 30-60 minutes using water bath at 95°-99°C
Incubation Time and Temp:	30-60 minutes @ RT
Detection:	Refer to the detection system manual

* Result should be confirmed by an established diagnostic procedure.



FFPE human placenta stained with anti-HCG Intact using DAB

References

1. Interaction, signal generation, signal divergence, and signal transduction of LH/CG and the receptor. Ji TH, et al. Recent Prog Horm Res. 52:431-53, 1997.
2. Crude urinary human chorionic gonadotropin contains variant forms of HCG with low sialic acid content that exhibit an increased thyrotropic activity in CHO cells expressing the human TSH receptor. Poertl S, et al. Exp Clin Endocrinol Diabetes. 103(3):168-74, 1995.

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