

Mouse anti-Beta hCG, clone 5H4-E2 (Monoclonal)

Clone no. 5H4-E2

MONOSAN

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Product name	Mouse anti-Beta hCG, clone 5H4-E2 (Monoclonal)
Host	Mouse
Applications	IHC-fr, IHC-P
Species reactivity	human
Conjugate	-
Immunogen	hCG beta, conjugated to various carrier proteins
Isotype	IgG1
Clonality	Monoclonal
Clone number	5H4-E2
Size	100 ug
Concentration	100 ug/ml
Format	-
Storage buffer	PBS with 0.02% sodium azide
Storage until expiry date	2-8°C

FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES

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**Additional info**

5H4-E2 reacts with hCG beta chain, which is specific for hCG. The alpha chain is identical among hCG, TSH, FSH and LH. While 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. Besides trophoblastic tumors e.g. choriocarcinoma, large cell carcinoma, adenocarcinoma and squamous cell carcinoma of the lung are also positive in 90%, 60% and 20% of cases respectively. In hCG producing tumors, including also certain testicular and embryonic carcinomas, the beta chain is produced in higher quantities than the alpha or dimeric chains. hCG expression by non-trophoblastic tumors may indicate aggressive behavior.

**References**

1. McDonald EA et. al. Endocrinology 150:4358-65 (2009)
2. -
3. -
4. -
5. -

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