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## 36-1042: Monoclonal Antibody to HCG-beta (Pregnancy & Choriocarcinoma Marker)(HCGb/54 + HCGb/459)

Clonality: Monoclonal

Clone Name: HCGb/54 + HCGb/459

Application: IHC
Reactivity: Human
Gene: CGB
Gene ID: 1082
Uniprot ID: P01233
Format: Purified
Alternative Name: CGB,CGB3

**Isotype:** Mouse IgG1, kappa

Immunogen Information: Recombinant hCG beta protein (HCGb/54 and HCGb/459)

## **Description**

This MAb reacts with a protein of 22kDa, identified as beta sub-unit of HCG. It does not cross react with the alpha sub-unit. HCG is a glycoprotein, which 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 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 MAb 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.

## **Product Info**

Amount:  $100 \mu g$ 

**Purification:** Affinity Chromatography

**Content:** 100 μg in 500 μl PBS containing 0.05% BSA and 0.05% sodium azide. Sodium azide is highly

toxic.

**Storage condition :** Store the antibody at 4°C; stable for 6 months. For long-term storage; store at -20°C. Avoid

repeated freeze and thaw cycles.

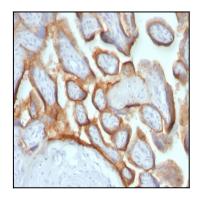
## **Application Note**

Immunohistochemistry (Formalin-fixed) (1-2ug/ml for 30 minutes at RT)(Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95&degC followed by cooling at RT for 20 minutes);



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Formalin-fixed, paraffin-embedded human Placenta stained with hCG beta Ab (HCGb/54 + HCGb/459).