

Datasheet for ABIN7654788

## Recombinant anti-HCG beta antibody



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### Overview

|                |                                                                                                         |
|----------------|---------------------------------------------------------------------------------------------------------|
| Quantity:      | 100 µL                                                                                                  |
| Target:        | HCG beta                                                                                                |
| Reactivity:    | Human                                                                                                   |
| Host:          | Mouse                                                                                                   |
| Antibody Type: | Recombinant Antibody                                                                                    |
| Clonality:     | Monoclonal                                                                                              |
| Conjugate:     | This HCG beta antibody is un-conjugated                                                                 |
| Application:   | Immunohistochemistry (IHC), Immunohistochemistry (Formalin-fixed Paraffin-embedded Sections) (IHC (fp)) |

### Product Details

|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Purpose:         | HCG-beta (Pregnancy & Choriocarcinoma Marker) (rHCGb/54)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Immunogen:       | Recombinant full-length human hCG beta protein                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Clone:           | RHCGb-54                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Isotype:         | IgG1, kappa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Characteristics: | This MAb reacts with a protein of 22 kDa, 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 |

## Product Details

(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. Primary antibodies are available purified, or with a selection of fluorescent CF® Dyes and other labels. CF® Dyes offer exceptional brightness and photostability. Note: Conjugates of blue fluorescent dyes like CF®405S and CF®405M are not recommended for detecting low abundance targets, because blue dyes have lower fluorescence and can give higher non-specific background than other dye colors.

## Target Details

|                   |                                                                                                                                      |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| Target:           | HCG beta                                                                                                                             |
| Background:       | Synonyms: CG-beta, CGB3, CGB5, CGB7, CGB8, Choriogonadotropin Subunit beta, hCGB<br>Gene Symbol: CGB3<br>Tissue Expression: Placenta |
| Molecular Weight: | 22 kDa                                                                                                                               |
| Gene ID:          | 1082                                                                                                                                 |
| UniProt:          | <a href="#">P01233</a>                                                                                                               |

## Application Details

|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Application Notes: | Higher concentration may be required for direct detection using primary antibody conjugates than for indirect detection with secondary antibody. Immunohistology (formalin): 0.5-1 µg/mL. Staining of formalin-fixed tissues requires boiling tissue sections in 10 mM citrate buffer, pH 6.0, for 10-20 minutes followed by cooling at RT for 20 minutes. Optimal dilution for a specific application should be determined by user |
| Comment:           | Positive Control: JAR or TT Cells. Placenta                                                                                                                                                                                                                                                                                                                                                                                         |
| Restrictions:      | For Research Use only                                                                                                                                                                                                                                                                                                                                                                                                               |

## Handling

|                |                               |
|----------------|-------------------------------|
| Format:        | Liquid                        |
| Concentration: | 0.2 mg/mL                     |
| Buffer:        | PBS, 0.05 % BSA, 0.05 % azide |

## Handling

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|                    |                                                                                                                        |
|--------------------|------------------------------------------------------------------------------------------------------------------------|
| Preservative:      | Sodium azide                                                                                                           |
| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |
| Storage:           | 4 °C                                                                                                                   |
| Storage Comment:   | Stable at room temperature or 37°C for 7 days.<br>Store at 2 to 8°C. Protect fluorescent conjugates from light         |
| Expiry Date:       | 24 months                                                                                                              |