

Datasheet for ABIN7654777

## Recombinant anti-HCG beta antibody (CF®488A)



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### Overview

|                |                                                                                                         |
|----------------|---------------------------------------------------------------------------------------------------------|
| Quantity:      | 100 µL                                                                                                  |
| Target:        | HCG beta                                                                                                |
| Reactivity:    | Human                                                                                                   |
| Host:          | Rabbit                                                                                                  |
| Antibody Type: | Recombinant Antibody                                                                                    |
| Clonality:     | Monoclonal                                                                                              |
| Conjugate:     | This HCG beta antibody is conjugated to CF®488A                                                         |
| Application:   | Immunohistochemistry (IHC), Immunohistochemistry (Formalin-fixed Paraffin-embedded Sections) (IHC (fp)) |

### Product Details

|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
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| Purpose:         | HCG-beta (Pregnancy & Choriocarcinoma Marker)(HCGb/1985R), CF488A conjugate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Immunogen:       | Recombinant full-length hCG beta protein                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Clone:           | HCGb-1985R                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Isotype:         | IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 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 subunit is identical to that of thyroid stimulating hormone (TSH) follicle stimulating hormone (FSH), and luteinizing hormone (LH). hCG MAb detects cells |

## Product Details

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: CGB<br>Tissue Expression: Placenta |
| Molecular Weight: | 22 kDa                                                                                                                              |
| Gene ID:          | 1082                                                                                                                                |
| UniProt:          | <a href="#">P01233</a>                                                                                                              |

## Application Details

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|--------------------|--------------------------------------------------------------------|
| Application Notes: | Optimal working dilution should be determined by the investigator. |
| Comment:           | Positive Control: JAR or TT Cells. Placenta                        |
| Restrictions:      | For Research Use only                                              |

## Handling

|                    |                                                                                                                        |
|--------------------|------------------------------------------------------------------------------------------------------------------------|
| Format:            | Liquid                                                                                                                 |
| Concentration:     | 0.1 mg/mL                                                                                                              |
| Buffer:            | PBS, 0.1 % BSA, 0.05 % azide                                                                                           |
| Preservative:      | Sodium azide                                                                                                           |
| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |

## Handling

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| Handling Advice: | Protect from light |
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| Storage: | 4 °C |
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| Storage Comment: | Stable at room temperature or 37°C for 7 days.<br>Protect from light<br>Store at 2 to 8°C. Protect fluorescent conjugates from light |
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| Expiry Date: | 24 months |
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