

## Datasheet for ABIN111952 **anti-hCG antibody**



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### Overview

|              |                                                                                       |
|--------------|---------------------------------------------------------------------------------------|
| Quantity:    | 0.2 mg                                                                                |
| Target:      | hCG                                                                                   |
| Reactivity:  | Human                                                                                 |
| Host:        | Mouse                                                                                 |
| Clonality:   | Monoclonal                                                                            |
| Conjugate:   | This hCG antibody is un-conjugated                                                    |
| Application: | Enzyme Immunoassay (EIA), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)) |

### Product Details

|               |                                                                                                                                                                                                                                                                                                                                                        |
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| Clone:        | H6                                                                                                                                                                                                                                                                                                                                                     |
| Isotype:      | IgG1                                                                                                                                                                                                                                                                                                                                                   |
| Specificity:  | This Monoclonal antibody Clone h6 recognizes $\beta$ -HCG, a well defined oncofetal protein of 36.7 kDa m.w. associated with pregnancy and some cancers. Raised serum levels for HCG are found in teratogenic carcinomas and trophoblastic tumors and occasionally in gastrointestinal, urogenital, bronchial or mammary carcinomas, and in lymphomas. |
| Purification: | Affinity Chromatography                                                                                                                                                                                                                                                                                                                                |

### Target Details

|              |                              |
|--------------|------------------------------|
| Target:      | hCG                          |
| Abstract:    | <a href="#">hCG Products</a> |
| Target Type: | Hormone                      |

## Target Details

**Background:** Human gonadotropin is a glycoprotein of 36.7 kDa consisting of two subunits. The  $\alpha$ -chain (MW 14.5 kD) is common to three other glycoprotein hormones (TSH, FSH, LH) whereas the  $\beta$ -chain (22.2kD) is more different. The  $\beta$ -chain of HCG and LH (lutrophin) have sequence homology in the first 112 amino acids and differ at the C-terminal end consisting of 24 amino acids. Synonyms: CGB, CGB3, Choriogonadotropin subunit beta, beta hCG, hCG-beta

**Gene ID:** 1082

**NCBI Accession:** [NP\\_000728](#)

**UniProt:** [P01233](#)

## Application Details

**Application Notes:** Suitable for Immunohistochemistry (IHC) on: Frozen sections: 0.1  $\mu$ g/mL (1/4000) Paraffin sections: 0.1  $\mu$ g/mL (1/4000), microwave pretreatment for antigen retrieval is recommended. It works also in ELISA. Suggested positive control: Human placenta.  
Other applications not tested.  
Optimal dilutions are dependent on conditions and should be determined by the user.

**Protocol:** Protocol with frozen, ice-cold acetone-fixed sections: The whole procedure is performed at room temperature  
1. Wash in PBS  
2. Block endogenous peroxidase  
3. Wash in PBS  
4. Block with 10% normal goat serum in PBS for 30min. in a humid chamber  
5. Incubate with primary antibody (dilution see datasheet) for 1h in a humid chamber  
6. Wash in PBS  
7. Incubate with secondary antibody (peroxidase-conjugated goat anti mouse IgG+IgM(H+L) minimal-cross reaction to human) for 1h in a humid chamber  
8. Wash in PBS  
9. Incubate with AEC substrate (3-amino-9-ethylcarbazol) for 12min.  
10. Wash in PBS  
11. Counterstain with Mayer's hemalum.

**Restrictions:** For Research Use only

## Handling

**Reconstitution:** Restore with 0.5 mL distilled water.

**Concentration:** 0.4 mg/mL

**Buffer:** PBS, pH 7.2 with 10 mg/mL BSA as a stabilizer and 0.01 % Thimerosal as a preservative

**Preservative:** Thimerosal (Merthiolate)

**Precaution of Use:** This product contains thimerosal (merthiolate): a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

## Handling

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| Handling Advice: | Avoid repeated freezing and thawing. |
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| Storage: | 4 °C/-20 °C |
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| Storage Comment: | Prior to reconstitution store at 2-8 °C. Following reconstitution store the antibody at -20 °C. |
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