

Datasheet for ABIN7660828  
**anti-TSHB antibody (CF®594)**



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## Overview

|              |                                                                                                         |
|--------------|---------------------------------------------------------------------------------------------------------|
| Quantity:    | 100 µL                                                                                                  |
| Target:      | TSHB                                                                                                    |
| Reactivity:  | Human                                                                                                   |
| Host:        | Mouse                                                                                                   |
| Clonality:   | Monoclonal                                                                                              |
| Conjugate:   | This TSHB antibody is conjugated to CF®594                                                              |
| Application: | Immunohistochemistry (IHC), Immunohistochemistry (Formalin-fixed Paraffin-embedded Sections) (IHC (fp)) |

## Product Details

|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Purpose:         | Thyroid Stimulating Hormone, beta (TSH beta) (Pituitary Marker)(TSHb/1317), CF594 conjugate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Immunogen:       | Recombinant human TSH beta fragment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Clone:           | TSHb-1317                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Isotype:         | IgG1, kappa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Characteristics: | The four human glycoprotein hormones chorionic gonadotropin (CG), luteinizing hormone (LH) follicle stimulating hormone (FSH), and thyroid stimulating hormone (TSH) are dimers consisting of alpha and beta subunits that are associated non-covalently. The alpha subunits of these hormones are identical, however, their beta chains are unique and confer biological specificity. TSH is synthesized and secreted by thyrotrope cells in the anterior pituitary gland which regulates the endocrine function of the thyroid gland. TSH stimulates the thyroid gland to secrete the hormones thyroxine (T4) and triiodothyronine (T3). TSH production is controlled by |

## Product Details

a Thyrotropin-Releasing Hormone (TRH), which is manufactured in the hypothalamus and transported to the pituitary gland, where it increases TSH production and release. Somatostatin is also produced by the hypothalamus and has an opposite effect on the pituitary production of TSH, decreasing or inhibiting its release. TSH is a useful marker in classification of pituitary tumors and the study of pituitary disease. 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:           | TSHB                                                                                                                                                        |
| Alternative Name: | Thyroid Stimulating Hormone, beta                                                                                                                           |
| Background:       | Synonyms: CHNG4, Thyroid stimulating hormone beta subunit, Thyroid stimulating hormone, beta precursor, Thyrotropin beta subunit, TSHB<br>Gene Symbol: TSHB |
| Molecular Weight: | 16 kDa                                                                                                                                                      |
| Gene ID:          | 7252                                                                                                                                                        |
| UniProt:          | <a href="#">P01222</a>                                                                                                                                      |
| Pathways:         | <a href="#">Thyroid Hormone Synthesis</a> , <a href="#">Peptide Hormone Metabolism</a>                                                                      |

## Application Details

|                    |                                                                    |
|--------------------|--------------------------------------------------------------------|
| Application Notes: | Optimal working dilution should be determined by the investigator. |
| Comment:           | Positive Control: Normal pituitary or its tumor.                   |
| Restrictions:      | For Research Use only                                              |

## Handling

|                |                              |
|----------------|------------------------------|
| Format:        | Liquid                       |
| Concentration: | 0.1 mg/mL                    |
| Buffer:        | PBS, 0.1 % BSA, 0.05 % azide |
| Preservative:  | Sodium azide                 |

## Handling

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|                    |                                                                                                                                      |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.               |
| Handling Advice:   | Protect from light                                                                                                                   |
| Storage:           | 4 °C                                                                                                                                 |
| 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 |
| Expiry Date:       | 24 months                                                                                                                            |