

## Datasheet for ABIN238514 **anti-TSHB antibody**



[Go to Product page](#)

### Overview

|              |                                                  |
|--------------|--------------------------------------------------|
| Quantity:    | 0.1 mg                                           |
| Target:      | TSHB                                             |
| Reactivity:  | Human                                            |
| Host:        | Mouse                                            |
| Clonality:   | Monoclonal                                       |
| Conjugate:   | This TSHB antibody is un-conjugated              |
| Application: | Enzyme Immunoassay (EIA), Radioimmunoassay (RIA) |

### Product Details

|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Immunogen:       | Human thyrotropin.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Clone:           | TSH-116                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Isotype:         | IgG2a                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Specificity:     | The antibody TSH-116 reacts with human thyroid stimulating hormone (hTSH, thyrotropin), a glycoprotein hormone produced by the anterior pituitary gland cells in response to signals from the hypothalamus gland in the brain. The TSH-116 reacts with association constant $1.1 \times 10^{11}$ l/mol. Following cross-reactivity expressed as binding of labelled hormone (% of total) was determined by solid phase RIA with excess of the antibody TSH-116: hTSH (78.9), hCG (20.3), hLH (23.2), hFSH (29.9). |
| Characteristics: | Synonyms: hTSH, Thyroid-stimulating hormone                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Purification:    | Protein A affinity chromatography.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

## Target Details

|                   |                                                                                                                                                                                                                                                                                  |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Target:           | TSHB                                                                                                                                                                                                                                                                             |
| Alternative Name: | Thyrotropin beta Chain ( <a href="#">TSHB Products</a> )                                                                                                                                                                                                                         |
| Background:       | Thyrotropin (hTSH) promotes the growth of the thyroid gland in the neck and stimulates it to produce more thyroid hormones. hTSH is composed of two subunits - alpha and beta. Synonyms: TSH, TSH beta, TSHB, Thyroid-stimulating hormone subunit beta, Thyrotropin subunit beta |
| Gene ID:          | 7252                                                                                                                                                                                                                                                                             |
| Pathways:         | <a href="#">Thyroid Hormone Synthesis</a> , <a href="#">Peptide Hormone Metabolism</a>                                                                                                                                                                                           |

## Application Details

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|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Application Notes: | ELISA. RIA. The antibody TSH-116 is suitable in combination with the antibody TSH-51 (ABIN238515) for Immunometric assays in the screening of neonatal hypothyroidism.<br>Other applications not tested.<br>Optimal dilutions are dependent on conditions and should be determined by the user. |
| Restrictions:      | For Research Use only                                                                                                                                                                                                                                                                           |

## Handling

|                    |                                                                                                                                                                         |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Concentration:     | 1.0 mg/mL                                                                                                                                                               |
| Buffer:            | PBS, pH 7.4 with 15 mM sodium azide as preservative.                                                                                                                    |
| 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/-20 °C                                                                                                                                                             |
| Storage Comment:   | Store the antibody undiluted at 2-8 °C for one month or (in aliquots) at -20 °C for longer. Avoid repeated freezing and thawing.<br>Shelf life: one year from despatch. |
| Expiry Date:       | 12 months                                                                                                                                                               |