

## Human Tyrosine Hydroxylase (TH) ELISA Kit | TH elisa kit

Human Tyrosine Hydroxylase (TH) ELISA Kit

CATALOG #  
**AAA330731**

REACTIVITY  
**Human**

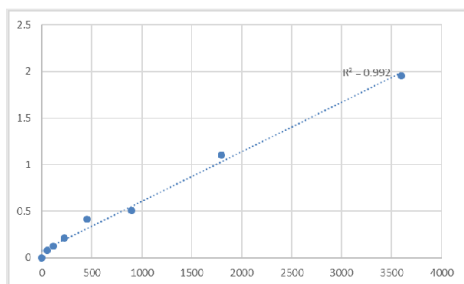
### PRODUCT SYNONYMS

Tyrosine Hydroxylase (TH); Human Tyrosine Hydroxylase (TH) ELISA Kit; TH; DYT14; DYT5b; TYH; dystonia 14; tyrosine 3-monooxygenase; TH elisa kit

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
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| Reactivity              | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Specificity             | Human Tyrosine hydroxylase (TH) ELISA Kit has high sensitivity and excellent specificity for detection of Human TH. No significant cross-reactivity or interference between Human TH and analogues was observed.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Sequence Length         | 497                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Assay Type              | Sandwich ELISA (Quantitative)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Samples                 | Cell Culture Supernatants, Serum, Plasma, Other Biological Fluids                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Detection Method        | Colorimetric                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Usage Notes             | <ul style="list-style-type: none"> <li>* Do not mix components from different kit lots or use reagents beyond the kit expiration date.</li> <li>* Allow all reagents to warm to room temperature for at least 30 minutes before opening.</li> <li>* Pre-rinse the pipet tip with reagent, use fresh pipet tips for each sample, standard and reagent to avoid contamination.</li> <li>* Unused wells must be kept desiccated at 4 degree C in the sealed bag provided.</li> <li>* Mix Thoroughly is very important for the result. It is recommended using low frequency oscillator or slight hand shaking every 10 minutes.</li> <li>* It is recommended that all samples and standards be assayed in duplicate or triplicate.</li> </ul> |
| Preparation and Storage | Store at 2-8 degree C.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

### IMAGES



**Standard Curve (Sample)**

Fig.1. Human Tyrosine hydroxylase (TH) Standard Curve.

ADDITIONAL INFORMATION

|                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for TH elisa kit | <p>Description: This Human Tyrosine hydroxylase (TH) ELISA Kit employs a two-site sandwich ELISA to quantitate TH in samples. An antibody specific for TH has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any TH present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for TH is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of TH bound in the initial step. The color development is stopped and the intensity of the color is measured.</p> <p>Background: Tyrosine hydroxylase (TH) is involved in the conversion of tyrosine to dopamine. It is the rate-limiting enzyme in the synthesis of catecholamines, hence plays a key role in the physiology of adrenergic neurons. Mutations in TH have been associated with autosomal recessive Segawa syndrome. Alternatively spliced transcript variants encoding different isoforms have been noted for TH.</p> |
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NCBI AND UNIPROT INFORMATION

|                                  |                                    |
|----------------------------------|------------------------------------|
| NCBI GI #                        | 88900503                           |
| NCBI GeneID                      | 7054                               |
| NCBI Accession #                 | NP_000351.2                        |
| NCBI GenBank Nucleotide #        | NP_000351.2                        |
| UniProt Accession #              | P07101                             |
| NCBI Official Full Name          | tyrosine 3-monooxygenase isoform b |
| NCBI Official Synonym Full Names | tyrosine hydroxylase               |
| NCBI Official Symbol             | TH                                 |
| NCBI Official Synonym Symbols    | TYH; DYT14; DYT5b                  |
| NCBI Protein Information         | tyrosine 3-monooxygenase           |
| UniProt Protein Name             | Tyrosine 3-monooxygenase           |
| UniProt Gene Name                | TH                                 |
| UniProt Synonym Gene Names       | TYH; TH                            |
| UniProt Entry Name               | TY3H_HUMAN                         |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/human-elisa-kits/tyrosine-hydroxylase-th/330731>