

## Rat Tyrosine Hydroxylase (TH) CLIA Kit | TH clia kit

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CATALOG #  
**AAA130305**

REACTIVITY  
**Rat**

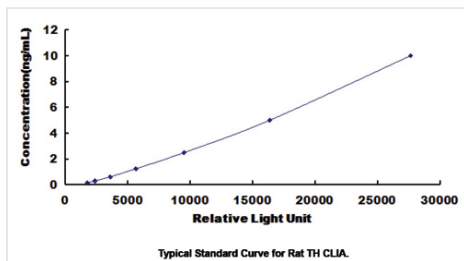
### PRODUCT SYNONYMS

Tyrosine Hydroxylase (TH); Rat Tyrosine Hydroxylase (TH) CLIA Kit; TYH; DYT5b; Tyrosine 3-Monooxygenase; Dystonia 14; TH clia kit

### PRODUCT SPECIFICATIONS

|                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|---------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity                                        | Rat                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Specificity                                       | This assay has high sensitivity and excellent specificity for detection of Tyrosine Hydroxylase (TH). No significant cross-reactivity or interference between Tyrosine Hydroxylase (TH) and analogues was observed.                                                                                                                                                                                                                                                                        |
| Sequence Length                                   | 106                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Assay Type                                        | Double-antibody Sandwich                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Samples                                           | Serum, Plasma, Tissue homogenates and other biological fluids                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Detection Range                                   | 13.7-10,000pg/mL                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Sensitivity                                       | 5.6pg/mL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Application                                       | Chemiluminescent immunoassay for Antigen Detection.                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Intra-assay Precision (Precision within an assay) | 3 samples with low, middle and high level Tyrosine Hydroxylase (TH) were tested 20 times on one plate, respectively.                                                                                                                                                                                                                                                                                                                                                                       |
| Inter-assay Precision (Precision between assays)  | 3 samples with low, middle and high level Tyrosine Hydroxylase (TH) were tested on 3 different plates, 8 replicates in each plate.                                                                                                                                                                                                                                                                                                                                                         |
| CV(%) =                                           | SD/meanX100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Intra-Assay                                       | CV<10%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Inter-Assay                                       | CV<12%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Preparation and Storage                           | The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition.<br>To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end. |

### IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

|                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|---------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for TH clia kit | The microplate provided in this kit has been pre-coated with an antibody specific to Tyrosine Hydroxylase (TH). Standards or samples are then added to the appropriate microplate wells with a biotin-conjugated antibody specific to Tyrosine Hydroxylase (TH). Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. Then the mixture of substrate A and B is added to generate glow light emission kinetics. Upon plate development, the intensity of the emitted light is proportional to the Tyrosine Hydroxylase (TH) level in the sample or standard.; |
| Product Categories/Family for TH clia kit   | Signal transduction; Enzyme & Kinase; Neuroscience; Hormone metabolism                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

NCBI AND UNIPROT INFORMATION

|                                  |                                                                        |
|----------------------------------|------------------------------------------------------------------------|
| NCBI GI #                        | 986909                                                                 |
| NCBI GeneID                      | 7054                                                                   |
| UniProt Accession #              | P07101; Q0PWM2; Q0PWM3; Q15585; Q15588; Q15589; Q2M3B4; B7ZL70; B7ZL73 |
| Molecular Weight                 | 44,898 Da                                                              |
| NCBI Official Full Name          | tyrosine hydroxylase, partial                                          |
| 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.