

Human Thyroid Hormone Receptor Beta (THRb) ELISA Kit | THRb elisa kit

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CATALOG #
AAA161618

REACTIVITY
Human

PRODUCT SYNONYMS

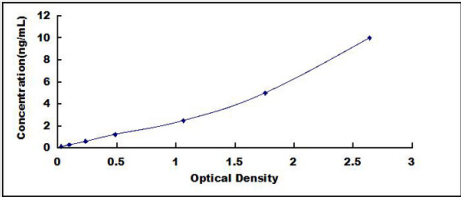
Thyroid Hormone Receptor Beta (THRb); Human Thyroid Hormone Receptor Beta (THRb) ELISA Kit; THRb ELISA kit (Human); ERBA-BETA; ERBA2; GRTH; NR1A2; THR1; THRB1; THRB2; Erythroblastic Leukemia Viral(v-erb-a)Oncogene Homolog 2; Avian; Nuclear Receptor Subfamily 1; Group A; Member 2; THRb elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of Thyroid Hormone Receptor Beta (THRb). No significant cross-reactivity or interference between Thyroid Hormone Receptor Beta (THRb) and analogues was observed. Reactive with Human THRb/Thyroid Hormone Receptor Beta
Assay Type	Double-antibody Sandwich
Samples	Tissue homogenates, Cell lysates and other biological fluids
Detection Method	Colormetric
Featured Series	SE kit
Detection Range	0.156-10ng/mL
Sensitivity	0.055ng/mL
Sample Size	100uL
Assay Time	3h
Function	Detects protein (regular version)
Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level Thyroid Hormone Receptor Beta (THRb) were tested 20 times on one plate, respectively. Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level Thyroid Hormone Receptor Beta (THRb) were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100 Intra-Assay: CV<10%, Inter-Assay: CV<12%
Assay Procedure Summary	1. Prepare all reagents, samples and standards 2. Add 100ul standard or sample to each well. Incubate 2 hours at 37 degree C 3. Aspirate and add 100ul prepared Detection Reagent A. Incubate 1 hour at 37 degree C 4. Aspirate and wash 3 times 5. Add 100ul prepared Detection Reagent B. Incubate 30 minutes at 37 degree C 6. Aspirate and wash 5 times 7. Add 90ul Substrate Solution. Incubate 10-20 minutes at 37 degree C 8. Add 50ul Stop Solution. Read at 450nm immediately.

Test Principle	The test principle applied in this kit is Sandwich enzyme immunoassay. The microtiter plate provided in this kit has been pre-coated with an antibody specific to Thyroid Hormone Receptor Beta (THRb). Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to Thyroid Hormone Receptor Beta (THRb). Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain Thyroid Hormone Receptor Beta (THRb), biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm +/- 10nm. The concentration of Thyroid Hormone Receptor Beta (THRb) in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Research Area	Signal transduction, Endocrinology, Hormone metabolism
Preparation and Storage	Store at 4 degree C for 1 month/-20 degree C for long-term (One year within shelf life) 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.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)
Typical Standard Curve for THRb ELISA (Sandwich)

NCBI AND UNIPROT INFORMATION

NCBI GI #	40806162
NCBI GeneID	7068
NCBI Accession #	NP_000452.2
NCBI GenBank Nucleotide #	NM_000461.4
UniProt Accession #	P10828; P37243; Q13986; Q3KP35; Q6WGL2; Q9UD41; B3KU79
Molecular Weight	52,788 Da
NCBI Official Full Name	thyroid hormone receptor beta
NCBI Official Synonym Full Names	thyroid hormone receptor, beta
NCBI Official Symbol	THRB
NCBI Official Synonym Symbols	GRTH; PRTH; THR1; ERBA2; NR1A2; THRB1; THRB2; C-ERBA-2; C-ERBA-BETA
NCBI Protein Information	thyroid hormone receptor beta; oncogene ERBA2; nuclear receptor subfamily 1 group A member 2; thyroid hormone nuclear receptor beta variant 1; thyroid hormone receptor, beta (erythroblastic leukemia viral (v-erb-a) oncogene homolog 2, avian)
UniProt Protein Name	Thyroid hormone receptor beta
UniProt Gene Name	THRB
UniProt Synonym Gene Names	ERBA2; NR1A2; THR1
UniProt Entry Name	THB_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/thyroid-hormone-receptor-beta-thrb/161618>