



Rabbit Anti-THRB antibody

SL41495R

Product Name THRB**Chinese Name** 甲状腺激素受体 β 抗体**Alias**

Thyroid Hormone Receptor beta; Avian erythroblastic leukemia viral (v erb a) oncogene homolog 2; C ERBA 2; C ERBA BETA; c-erbA-2; c-erbA-beta; ERBA 2; ERBA BETA; ERBA2; Erythroblastic leukemia viral (v erb a) oncogene homolog 2 avian; generalized resistance to thyroid hormone; GRTH; MGC126109; MGC126110; NR1A2; Nuclear receptor subfamily 1 group A member 2; Oncogene ERBA2; PPTH; THB_HUMAN; THR 1; THR1; THRB 1; THRB 2; THRB2; Thyroid hormone nuclear receptor beta variant 1; Thyroid hormone receptor beta 1; Thyroid hormone receptor beta 2; Thyroid hormone receptor beta; Thyroid hormone receptor, beta (erythroblastic leukemia viral (v erb a) oncogene homolog 2, avian); TH β 1; TH β 2.

Research Area

Cardiovascular Cell biology Neurobiology Growth factors and hormones Endocrinopathy

Immunogen Species

Rabbit

Clonality

Polyclonal

React Species

Human

Applications

IHC-P=1:200-800,IHC-F=1:400-800,IF=1:100-500,Flow-Cyt=1ug/Test,ELISA=1:5000-10000
(Paraffin sections need antigen repair)
not yet tested in other applications.
optimal dilutions/concentrations should be determined by the end user.

Theoretical molecular weight

53kDa

Cellular localization

The nucleus

Form

Liquid

Concentration 1mg/ml**immunogen**

Recombinant human THRB protein : 209-461/461

Lsotype

IgG

Purification

affinity purified by Protein A

Attention

This product as supplied is intended for research use only, not for use in human, therapeutic or

diagnostic applications.

PubMed

[PubMed](#)

Thyroid hormone receptors (TRs) are ligand-dependent transcription factors that mediate the biological activities of thyroid hormone (T3). Thyroid hormone receptor b2 (TRb2) is a high affinity receptor for triiodothyronine which belongs to the nuclear hormone receptor family and the NR1 subfamily. It is composed of three domains: a modulating N-terminal domain, a DNA-binding domain and a C-terminal steroid-binding domain. Defects in the receptor result in generalized thyroid hormone resistance (GTHR). GTHR is transmitted as an autosomal dominant trait, but an autosomal recessive form also exists. The disease is characterized by goiter, abnormal mental functions, increased susceptibility to infections, abnormal growth and bone maturation, tachycardia and deafness. GTHR patients also have high levels of circulating thyroid hormones (T3-T4), with normal or slightly elevated thyroid stimulating hormone.

Function:

Nuclear hormone receptor that can act as a repressor or activator of transcription. High affinity receptor for thyroid hormones, including triiodothyronine and thyroxine.

SWISS:

P10828

**Product
Detail**

Gene ID:

7068

Database links:

[Entrez Gene: 7068](#) Human

[Entrez Gene: 24831](#) Rat

[Omim: 190160](#) Human

[SwissProt: P10828](#) Human

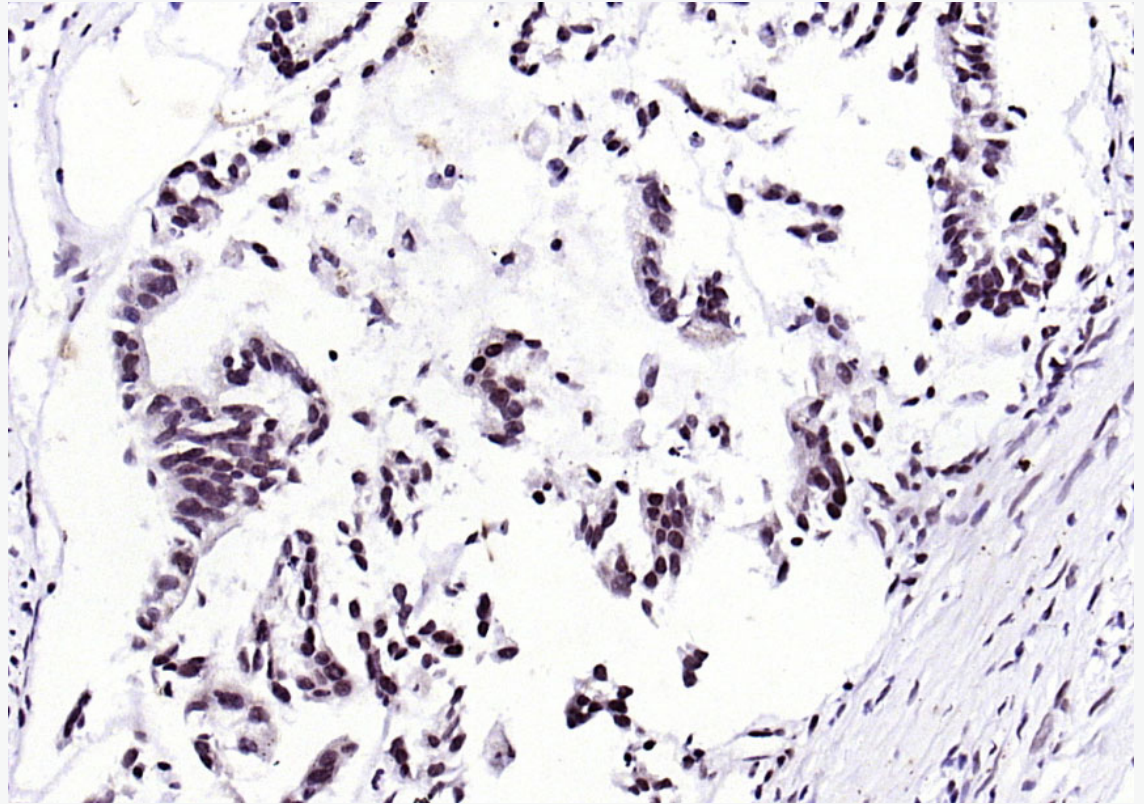
[SwissProt: P18113](#) Rat

[Unigene: 187861](#) Human

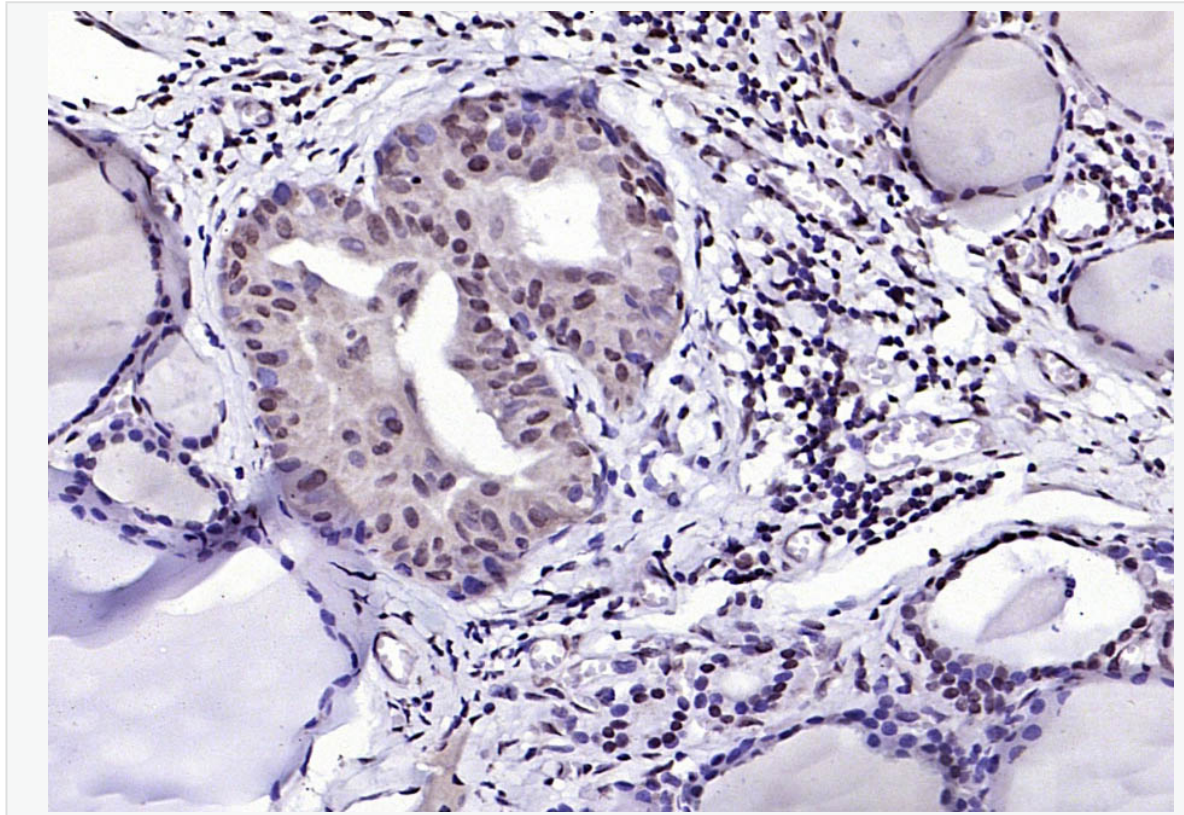
[Unigene: 728126](#) Human

[Unigene: 88692](#) Rat

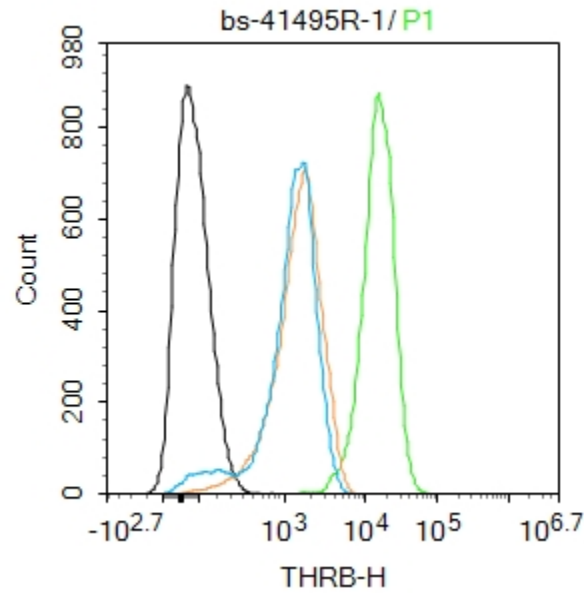
**Product
Picture**



Paraformaldehyde-fixed, paraffin embedded (human gastric carcinoma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (THRB) Polyclonal Antibody, Unconjugated (SL41495R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (human thyroid gland); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (THRB) Polyclonal Antibody, Unconjugated (SL41495R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Blank control (black line) :Hela.

Primary Antibody (green line): Rabbit Anti-THRB antibody (SL41495R)

Dilution: 1ug/Test;

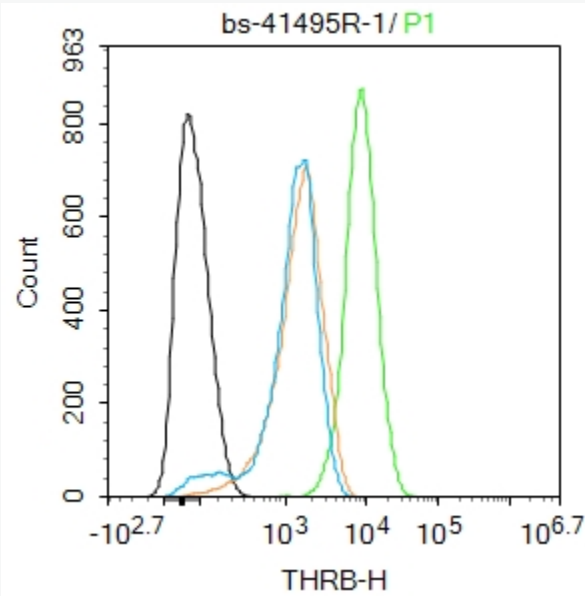
Secondary Antibody (white blue line) : Goat anti-rabbit IgG-AF488

Dilution: 0.5ug/Test.

Isotype control (orange line) : Normal Rabbit IgG

Protocol

The cells were fixed with 4% PFA (10min at room temperature)and then permeabilized with 90% ice-cold methanol for 20 min at -20°C, The cells were then incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.



Blank control (black line) :Hela.

Primary Antibody (green line): Rabbit Anti-THRB antibody (SL41495R)

Dilution: 1ug/Test;

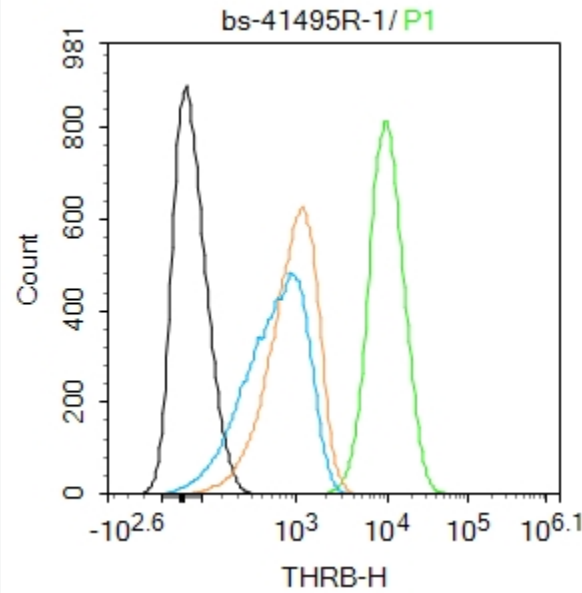
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Dilution: 0.5ug/Test.

Isotype control (orange line) : Normal Rabbit IgG

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Blank control (black line) :A431.

Primary Antibody (green line): Rabbit Anti-THRB antibody (SL41495R)

Dilution: 1ug/Test;

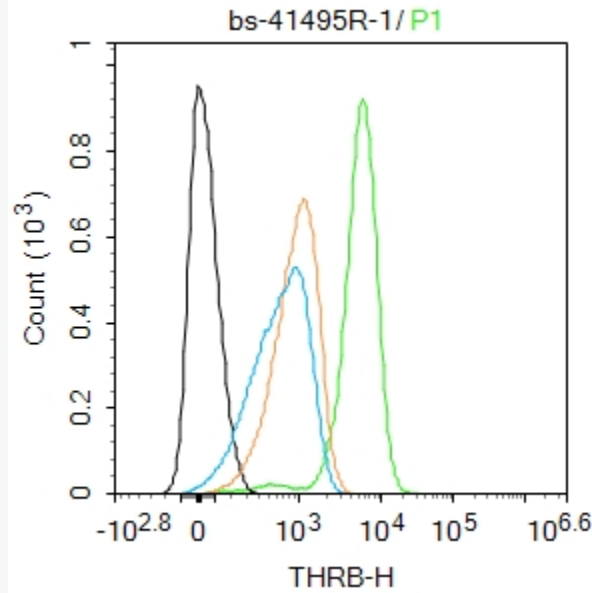
Secondary Antibody (white blue line) : Goat anti-rabbit IgG-AF488

Dilution: 0.5ug/Test.

Isotype control (orange line) : Normal Rabbit IgG

Protocol

The cells were fixed with 4% PFA (10min at room temperature) and then permeabilized with 90% ice-cold methanol for 20 min at -20°C. The cells were then incubated in 5% BSA to block non-specific protein-protein interactions for 30 min at room temperature. Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.



Blank control (black line) :A431.

Primary Antibody (green line): Rabbit Anti-THRB antibody (SL41495R)

Dilution: 1ug/Test;

Secondary Antibody (white blue line) : Goat anti-rabbit IgG-AF488

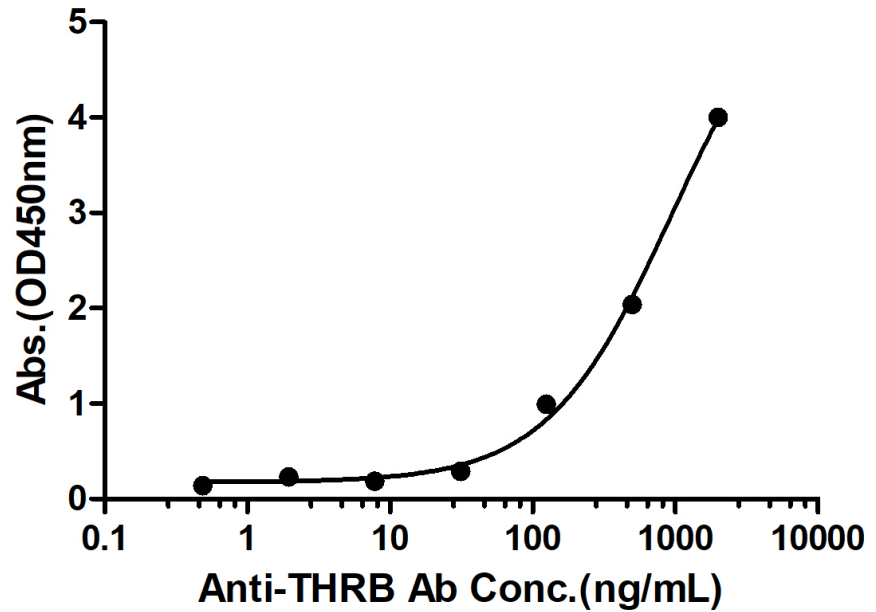
Dilution: 0.5ug/Test.

Isotype control (orange line) : Normal Rabbit IgG

Protocol

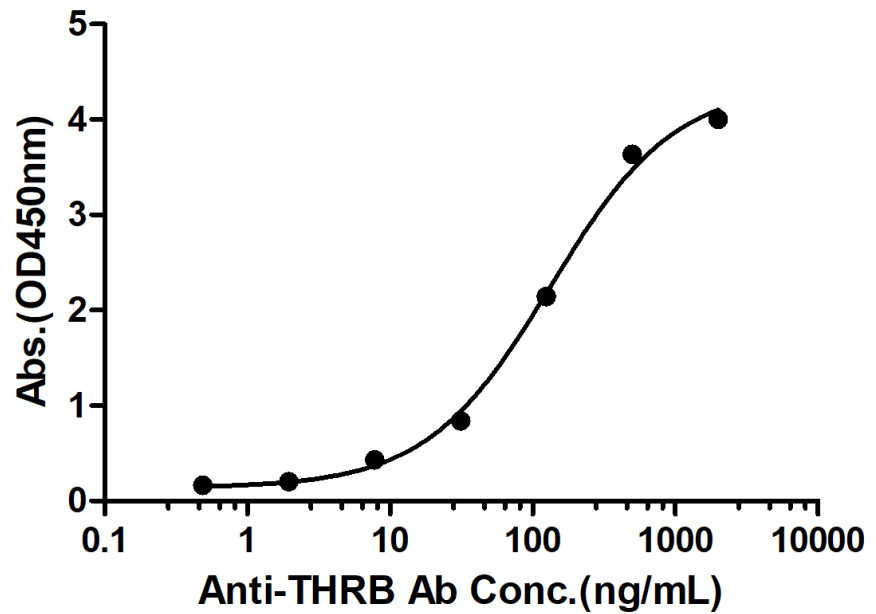
The cells were fixed with 4% PFA (10min at room temperature) and then permeabilized with 90% ice-cold methanol for 20 min at -20°C. The cells were then incubated in 5% BSA to block non-specific protein-protein interactions for 30 min at room temperature. Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.

Rabbit Anti-Human THRB Antibody Bind with Human THRB protein, His Tag



Measured by its binding ability in a indirect ELISA. Immobilized Human THRB protein, His Tag (Cat. SL41495P) at 2 $\mu\text{g/mL}$ (100 $\mu\text{L/well}$) can bind Rabbit Anti-Human THRB Antibody, the EC50 is 942.9 ng/mL.

Rabbit Anti-Human THRB Antibody Bind with Human THRB protein, His Tag



Measured by its binding ability in a indirect ELISA. Immobilized Human THRB protein, His Tag (Cat. SL41495P) at 2 $\mu\text{g/mL}$ (100 $\mu\text{L/well}$) can bind Rabbit Anti-Human THRB Antibody, the EC50 is 133.9 ng/mL.