



Mouse Anti-THRB antibody

SLM-41495M

Product Name	THRB
Chinese Name	甲状腺激素受体 β 小鼠单克隆抗体
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; PRTN3; 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	Mouse
Clonality	Monoclonal
React Species	Human Mouse Rat
Applications	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:400-800,IF=1:100-500,Flow-Cyt=1ug/Test (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
immunogen	Recombinant human THRB protein : 209-461/461
Lsotype	IgG



Purification affinity purified by Protein A

Storage Shipped at 4°C. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.

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.

SWISS:
P10828

Gene ID:
7068

**Product
Detail**

Database links:

[Entrez Gene: 7068](#) Human

[Entrez Gene: 24831](#) Rat

[Omim: 190160](#) Human

[SwissProt: P10828](#) Human

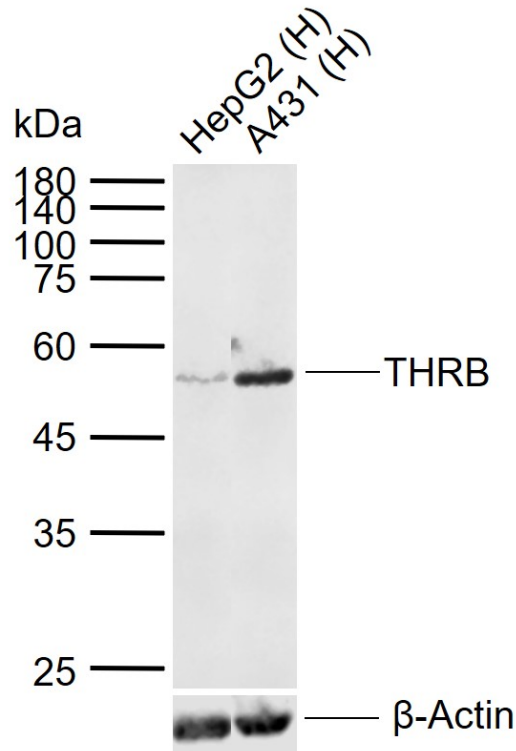
[SwissProt: P18113](#) Rat

[Unigene: 187861](#) Human

[Unigene: 728126](#) Human

[Unigene: 88692](#) Rat

**Product
Picture**



Sample:

Lane 1: Human HepG2 cell lysates

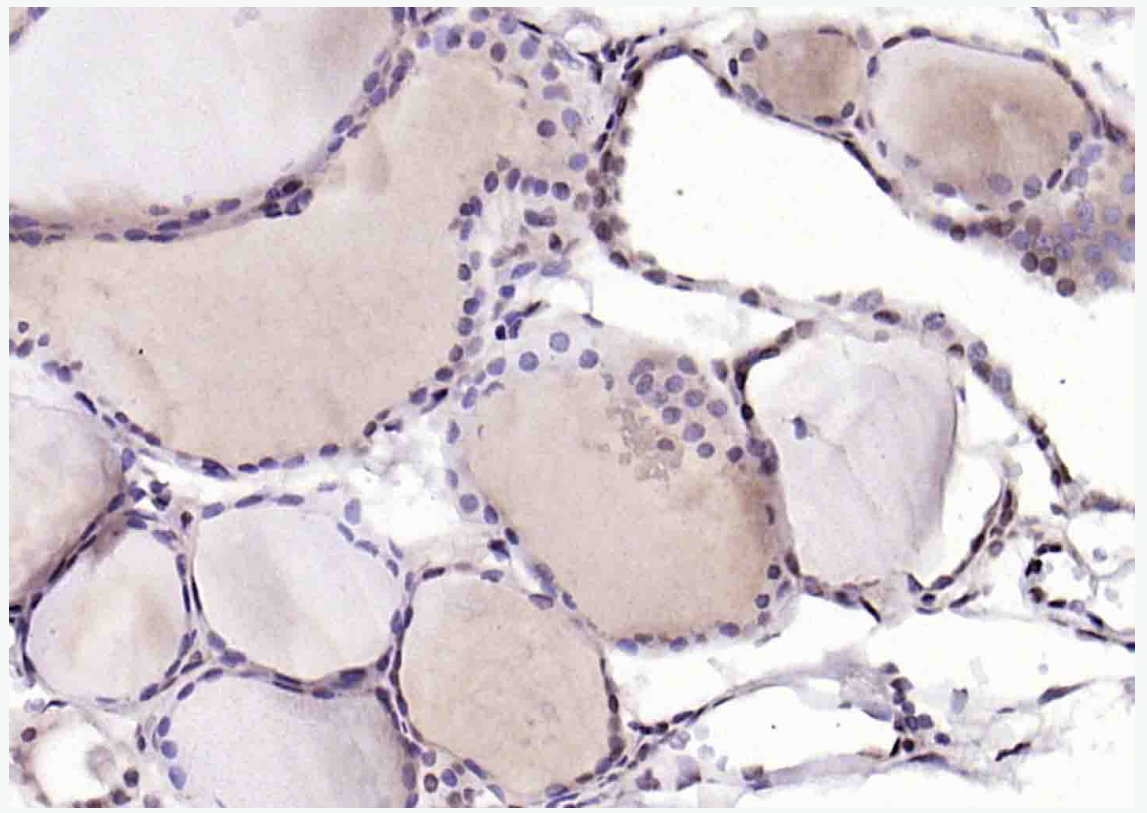
Lane 2: Human A431 cell lysates

Primary: Anti-THR B (SLM-41495M) at 1/1000 dilution

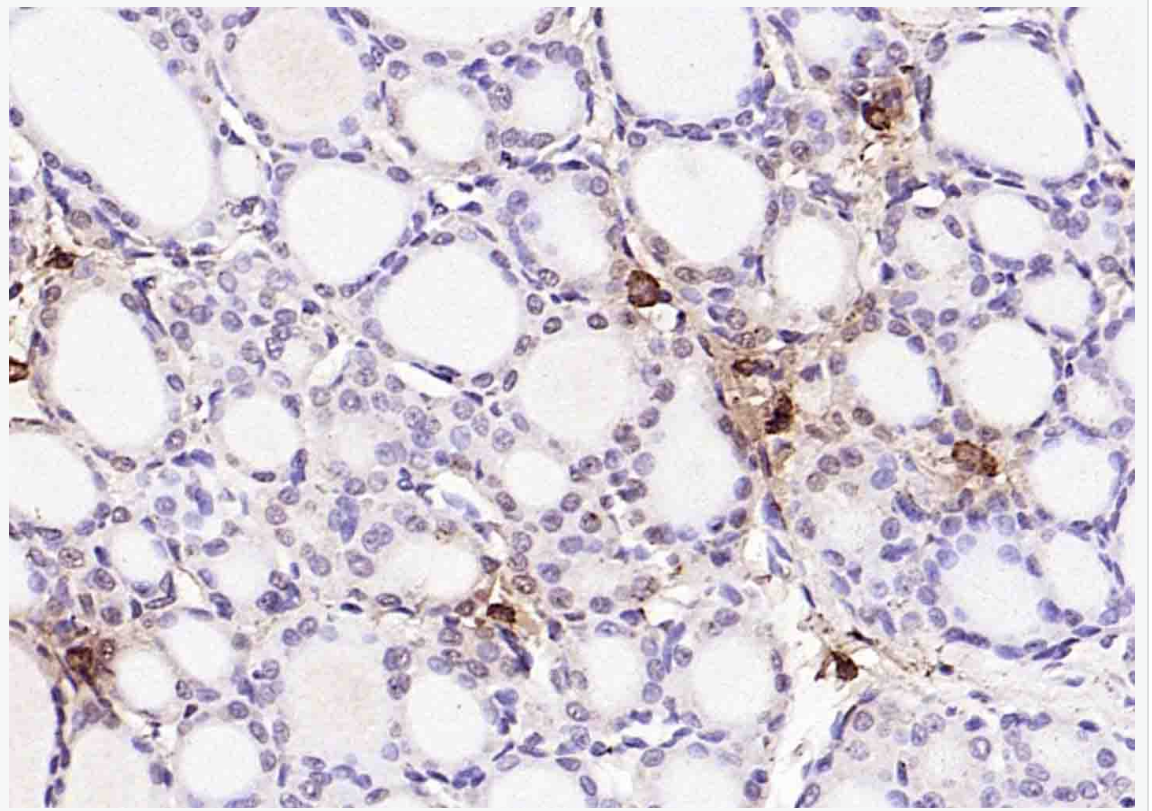
Secondary: IRDye800CW Goat Anti-Mouse IgG at 1/20000 dilution

Predicted band size: 53 kDa

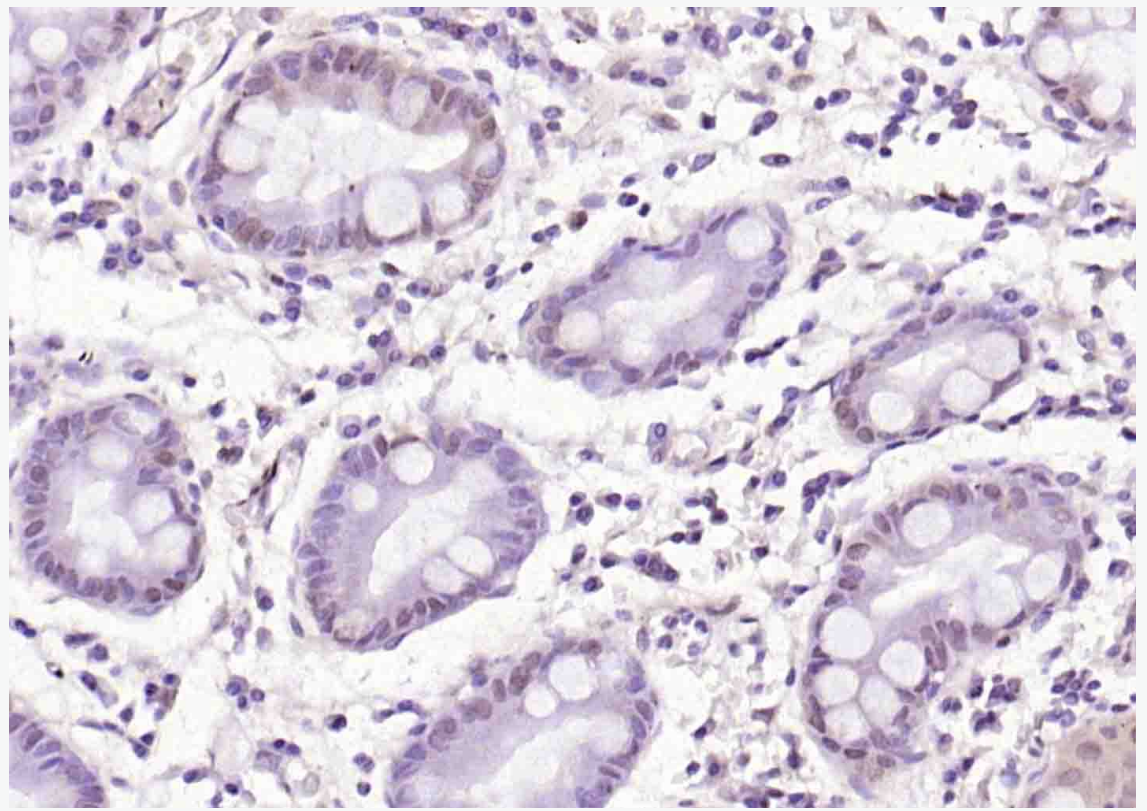
Observed band size: 53 kDa



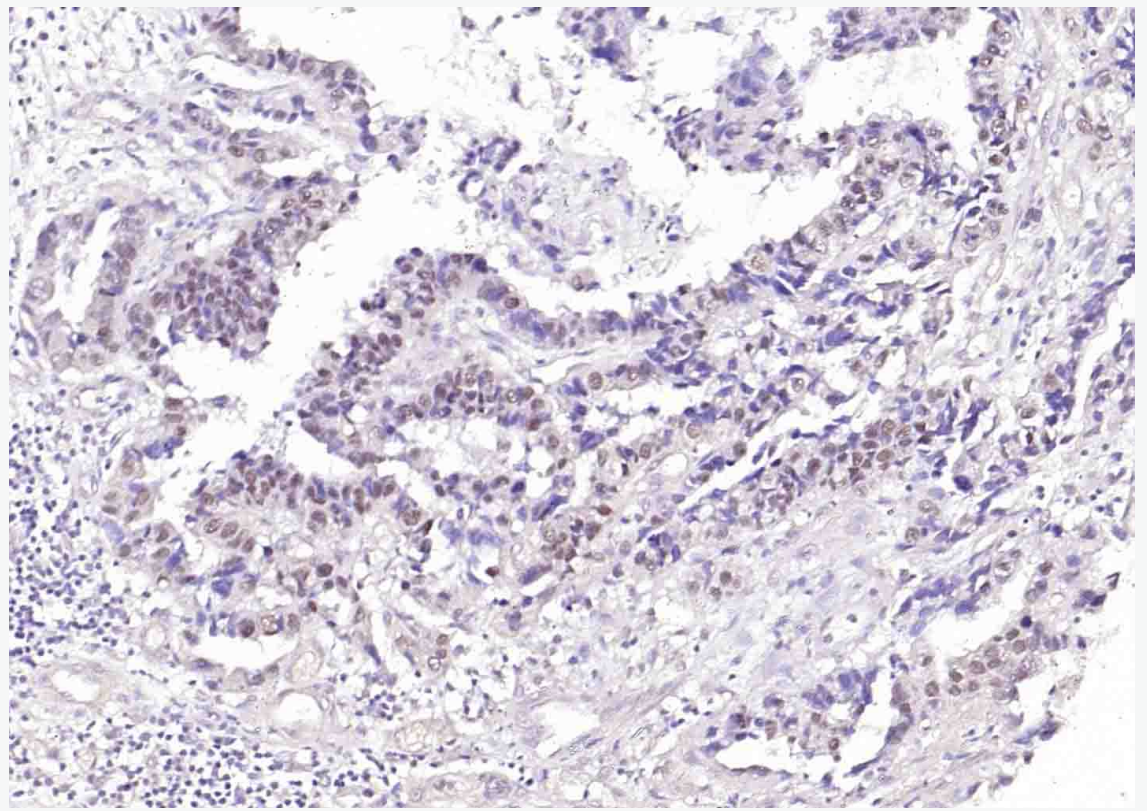
Paraformaldehyde-fixed, paraffin embedded (Human thyroid gland); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (THRβ) Monoclonal Antibody, Unconjugated (SLM-41495M) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Mouse)(sp-0024) instructions and DAB staining.



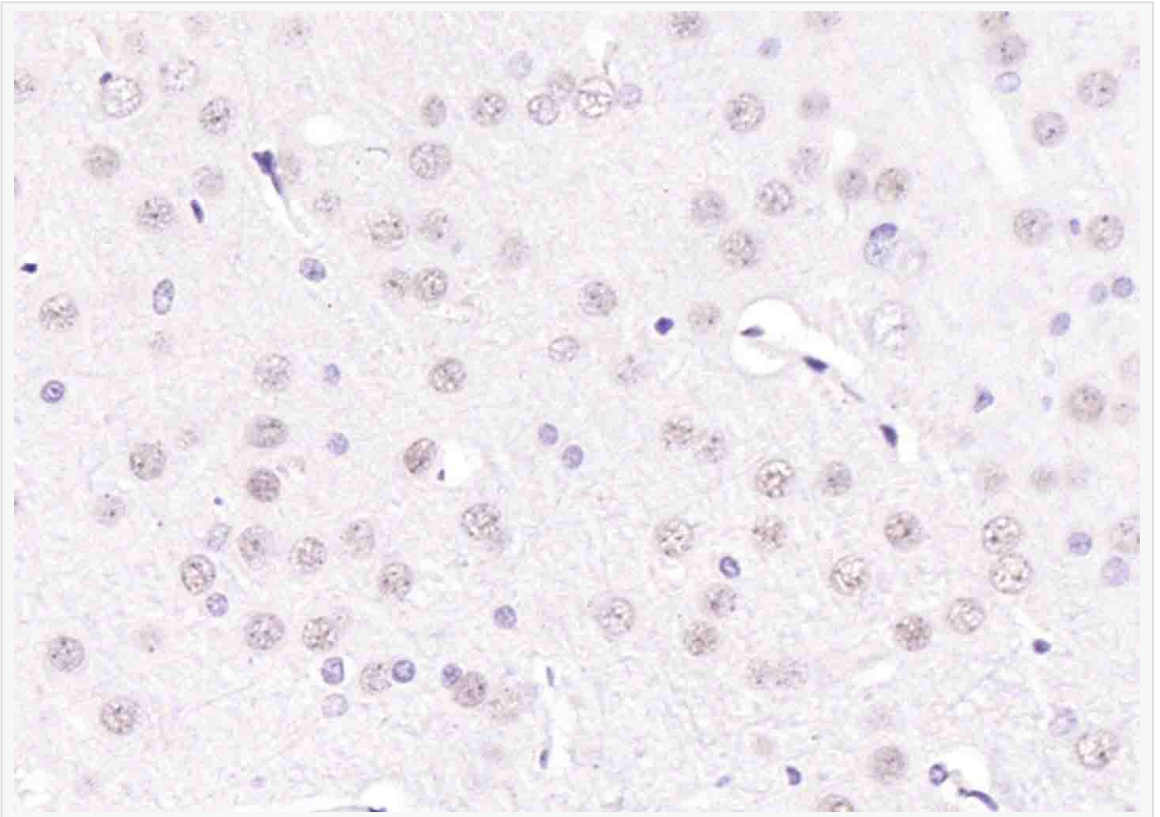
Paraformaldehyde-fixed, paraffin embedded (mouse thyroid gland); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (THRB) Monoclonal Antibody, Unconjugated (SLM-41495M) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Mouse)(sp-0024) instructions and DAB staining.



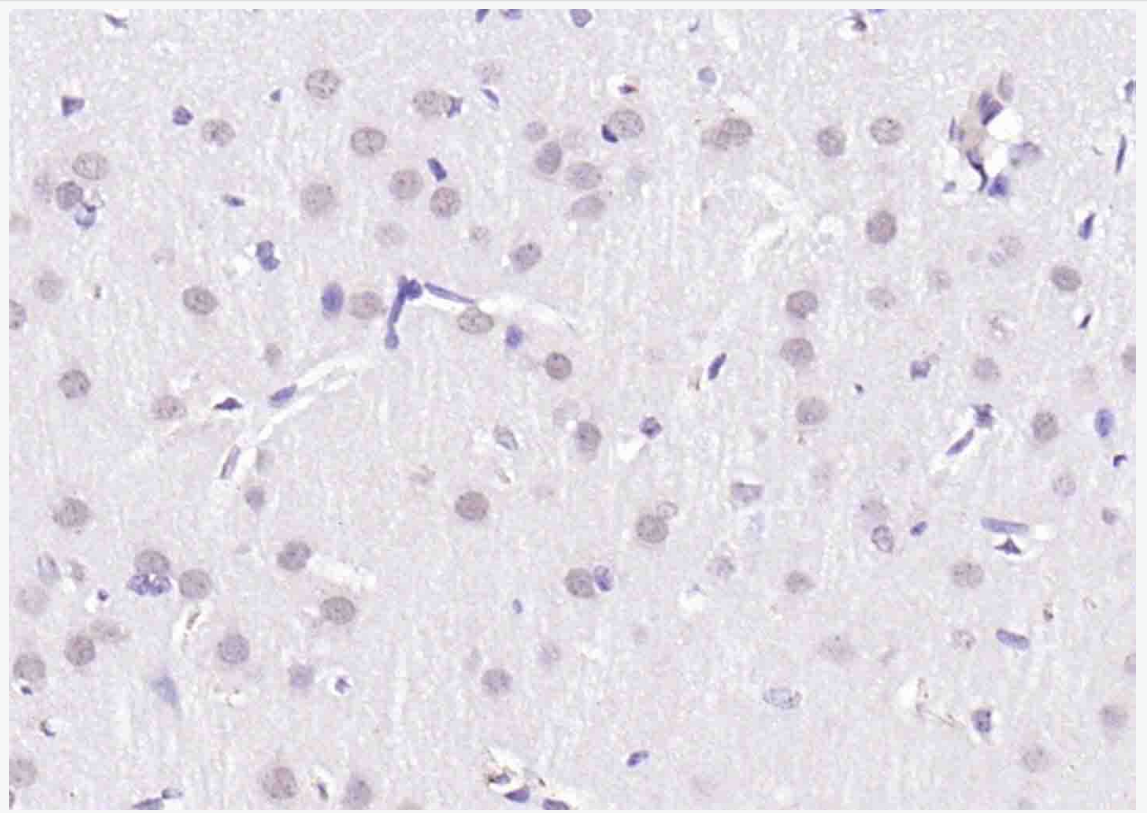
Paraformaldehyde-fixed, paraffin embedded (human gastric carcinoma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (THRβ) Monoclonal Antibody, Unconjugated (SLM-41495M) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Mouse)(sp-0024) instructions and DAB staining.



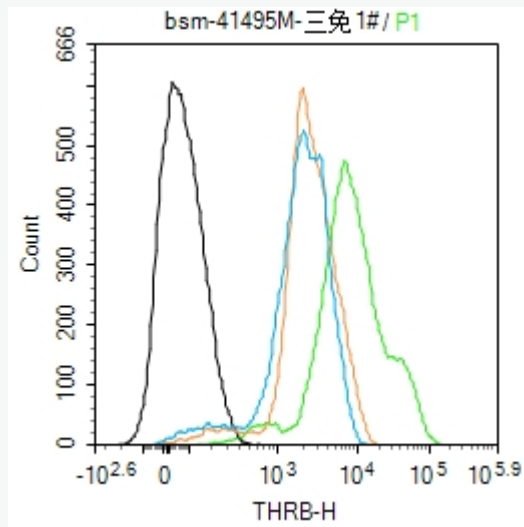
Paraformaldehyde-fixed, paraffin embedded (human colon carcinoma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (THRB) Monoclonal Antibody, Unconjugated (SLM-41495M) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Mouse)(sp-0024) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (rat brain); 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) Monoclonal Antibody, Unconjugated (SLM-41495M) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Mouse)(sp-0024) instructions and DAB staining



Paraformaldehyde-fixed, paraffin embedded (rat brain); 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) Monoclonal Antibody, Unconjugated (SLM-41495M) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Mouse)(sp-0024) instructions and DAB staining.



Blank control (black line) :HepG2.

Primary Antibody (green line): Mouse Anti-THRB antibody (SLM-41495M)

Dilution:1ug/Test;

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

Dilution: 0.5ug/Test.

Isotype control (orange line) : Normal Mouse 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.



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