

THRB Polyclonal Antibody

Product Details	
Size	100 µL
Species Reactivity	Human, Mouse, Rat
Published Species	Human
Host/Isotype	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	Recombinant fragment corresponding to a region within amino acids 1 and 199 of Human Thyroid Hormone Receptor beta
Form	Liquid
Concentration	0.76 mg/mL
Purification	Antigen affinity chromatography
Storage buffer	0.1M tris glycine, pH 7, with 10% glycerol
Contains	0.01% thimerosal
Storage conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.
RRID	AB_2493188

Applications	Tested Dilution	Publications
Western Blot (WB)	1:500-1:3,000	-
Immunohistochemistry (Paraffin) (IHC (P))	-	1 Publication
Immunocytochemistry (ICC/IF)	1:100-1:1,000	-
ChIP assay (ChIP)	-	1 Publication

Product Specific Information

Recommended positive controls: 293T, A431, H1299, HeLa, HepG2, Molt-4, Raji.

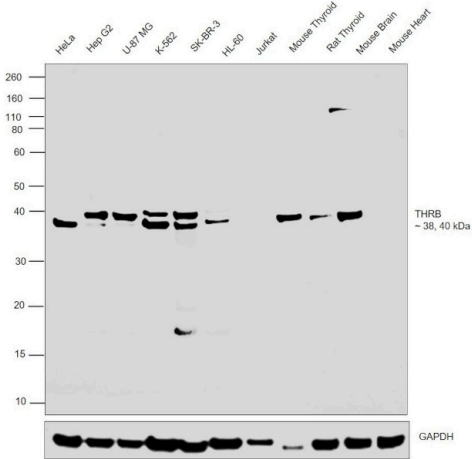
Predicted reactivity: Mouse (93%), Rat (92%), Sheep (90%).

Store product as a concentrated solution. Centrifuge briefly prior to opening the vial.

Product Images For THRB Polyclonal Antibody

THRB Antibody (PA5-29684)

Antibody specificity was demonstrated by detection of differential basal expression of the target across cell lines and tissues owing to their inherent genetic constitution. The expression was observed across the cell lines and tissues except in HL-60, Jurkat and Mouse Heart using THRB Polyclonal Antibody (Product # PA5-29684) in Western Blot. {RE}

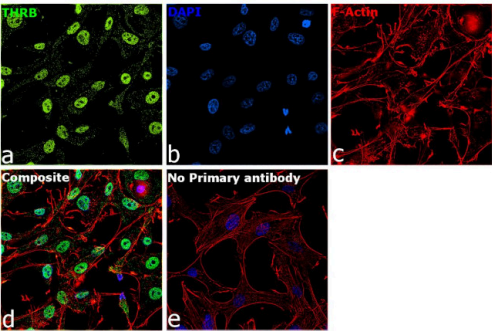


THRB Antibody (PA5-29684) in WB

Western blot was performed using Anti-THRB Polyclonal Antibody (Product # PA5-29684) and 38, 40 kDa bands corresponding to THRB was observed across the cell lines and tissues tested except in HL-60, Jurkat and Mouse Heart which are reported to be negative. Modified whole cell extracts (1% SDS) (30 µg lysate) of HeLa (Lane1), Hep G2 (Lane 2), U-87 MG (Lane 3), K-562 (Lane 4), SK-BR-3 (Lane 5), HL-60 (Lane 6), Jurkat (Lane 7), tissue extracts (30 µg lysate) of Mouse Thyroid (Lane 8), Rat Thyroid (Lane 9), Mouse Brain (Lane 10) and Mouse Heart (Lane 11) were electrophoresed using Novex® NuPAGE™ 10% Bis-Tris Protein Gel (Product # NP0302BOX). Resolved proteins were then transferred onto a nitrocellulose membrane (Product # IB23001) by iBlot® 2 Dry Blotting System (Product # IB21001). The blot was probed with the primary antibody (1:1000 dilution) and detected by chemiluminescence with Goat anti-Rabbit IgG (Heavy Chain), Superclonal™ Recombinant Secondary Antibody, HRP (Product # A27036, 1:4000 dilution) using the iBright FL 1000 (Product # A32752). Chemiluminescent detection was performed using Novex® ECL Chemiluminescent Substrate Reagent Kit (Product # WP20005).

THRB Antibody (PA5-29684) in ICC/IF

Immunofluorescence analysis of THRB was performed using 70% confluent log phase U-87 MG cells. The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 15 minutes, and blocked with 2% BSA for 1 hour at room temperature. The cells were labeled with THRB Polyclonal Antibody (Product # PA5-29684) at 1:100 dilution in 0.1% BSA, incubated at 4 degree Celsius overnight and then with Donkey anti-Rabbit IgG (H+L) Highly Cross-Adsorbed Secondary Antibody, Alexa Fluor Plus 488 conjugate (Product # A32790) at a dilution of 1:2000 for 45 minutes at room temperature (Panel a: green). Nuclei (Panel b: Blue) were stained with ProLong™ Diamond Antifade Mountant with DAPI (Product # P36962). F-actin (Panel c: Red) was stained with Rhodamine Phalloidin (Product # R415, 1:300). Panel d represents the merged image showing nuclear localization. Panel e represents control cells with no primary antibody to assess background. The images were captured at 60X magnification.



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Immunohistochemistry (Paraffin) (1)

Endocrinology	Year 2016
Thyroid Hormone Receptor- (TR) Mediates Runt-Related Transcription Factor 2 (Runx2) Expression in Thyroid Cancer Cells: A Novel Signaling Pathway in Thyroid Cancer.	
"PA5-29684 was used in ChIP assay and immunohistochemistry - paraffin section to characterize a novel signaling pathway in thyroid cancer that mediates runt-related transcription factor 2 (Runx2) expression in thyroid cancer cells by thyroid hormone recep"	
Authors: Carr FE,Tai PW,Barnum MS,Gillis NE,Evans KG,Taber TH,White JH,Tomczak JA,Jaworski DM,Zaidi SK,Lian JB,Stein JL,Stein GS	

ChIP assay (1)

Endocrinology	Year 2018
Thyroid Hormone Receptor Suppression of RUNX2 Is Mediated by Brahma-Related Gene 1-Dependent Chromatin Remodeling.	
"PA5-29684 was used in ChIP assay to reveal a mechanism of TR repression of oncogenic gene expression: TR recruitment of BRG1 induces chromatin compaction and diminishes RUNX2 expression."	
Authors: Gillis NE,Taber TH,Bolf EL,Beaudet CM,Tomczak JA,White JH,Stein JL,Stein GS,Lian JB,Frietze S,Carr FE	

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