abcam

Product datasheet

Anti-Thyroid Hormone Receptor beta antibody - N-terminal ab180612

★★★★ 1 Abreviews 3 References 2 Images

Overview

Product name Anti-Thyroid Hormone Receptor beta antibody - N-terminal

Description Rabbit polyclonal to Thyroid Hormone Receptor beta - N-terminal

Host species Rabbit

Tested applications Suitable for: WB, ICC/IF

Species reactivity Reacts with: Mouse, Rat, Human

Predicted to work with: Sheep

Immunogen Recombinant fragment corresponding to Human Thyroid Hormone Receptor beta 1 aa 1-250 (N

terminal). Sequence:

MTPNSMTENGLTAWDKPKHCPDREHDWKLVGMSEACL

HRKSHSERRSTLK

NEQSSPHLIQTTWTSSIFHLDHDDVNDQSVSSAQTFQTEE

KKCKGYIPSY

LDKDELCVVCGDKATGYHYRCITCEGCKGFFRRTIQKNLH

PSYSCKYEGK

CVIDKVTRNQCQECRFKKCIYVGMATDLVLDDSKRLAKRK

LIEENREKRR

REELQKSIGHKPEPTDEEWELIKTVTEAHVATNAQGSHWK

QKRKFLPEDI

Database link: P10828

Run BLAST with
Run BLAST with

Positive control WB: HepG2 and U-87MG cell lysates. Mouse liver and eye tissue lysates. Rat liver and eye tissue

lysates. ICC/ IF: U-2 OS.

General notes

The Life Science industry has been in the grips of a reproducibility crisis for a number of years.

Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets

your needs before purchasing.

If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be

found below, along with publications, customer reviews and Q&As

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Properties

Form Liquid

Storage instructions Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long

term. Avoid freeze / thaw cycle.

Storage buffer pH: 7.30

Preservative: 0.02% Sodium azide Constituents: 49% PBS, 50% Glycerol

Purity Immunogen affinity purified

Clonality Polyclonal

Isotype IgG

Applications

The Abpromise guarantee

Our Abpromise guarantee covers the use of ab180612 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/500 - 1/2000. Predicted molecular weight: 53 kDa.
ICC/IF		1/50 - 1/200.

Target

Function High affinity receptor for triiodothyronine.

Involvement in disease Defects in THRB are the cause of generalized thyroid hormone resistance (GTHR) [MIM:188570,

274300]. 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. Affected individuals may also have attention deficit-hyperactivity disorders (ADHD) and language difficulties. GTHR patients also have high levels of circulating thyroid hormones (T3-T4), with

normal or slightly elevated thyroid stimulating hormone (TSH).

Defects in THRB are the cause of selective pituitary thyroid hormone resistance (PRTH)

 $[MIM:145650]; also known as familial \ hyperthyroidism \ due \ to \ in appropriate \ thyrotropin \ secretion.$

PRTH is a variant form of thyroid hormone resistance and is characterized by clinical

hyperthyroidism, with elevated free thyroid hormones, but inappropriately normal serum TSH. Unlike GRTH, where the syndrome usually segregates with a dominant allele, the mode of

inheritance in PRTH has not been established.

Sequence similarities Belongs to the nuclear hormone receptor family. NR1 subfamily.

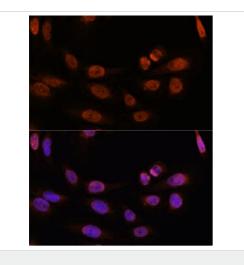
Contains 1 nuclear receptor DNA-binding domain.

DomainComposed of three domains: a modulating N-terminal domain, a DNA-binding domain and a C-

terminal ligand-binding domain.

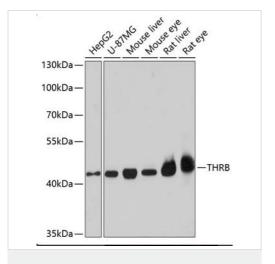
Cellular localization Nucleus.

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Immunocytochemistry/ Immunofluorescence - Anti-Thyroid Hormone Receptor beta antibody - Nterminal (ab180612)

Immunofluorescence staining of U-2 OS cells stained for Thyroid Hormone Receptor beta with ab180612 at 1/100 dilution. Nuclei are labeled with DAPI (Blue).



Western blot - Anti-Thyroid Hormone Receptor beta antibody - N-terminal (ab180612)

All lanes : Anti-Thyroid Hormone Receptor beta antibody - N-terminal (ab180612) at 1/1000 dilution

Lane 1: HepG2 cell lysate

Lane 2: U-87MG cell lysate

Lane 3: Mouse liver tissue lysate

Lane 4: Mouse eye tissue lysate

Lane 5: Rat liver tissue lysate

Lane 6: Rat eye tissue lysate

Lysates/proteins at 25 µg per lane.

Secondary

All lanes: HRP Goat AntiRabbit IgG (H+L)

Developed using the ECL technique.

Predicted band size: 53 kDa

Exposure time: 30 seconds

Blocking buffer: 3% nonfat dry milk in TBST

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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