abcam

Product datasheet

Anti-Thyroid Hormone Receptor alpha antibody ab53729

9 Abreviews 13 References 4 Images

Overview

Product name	Anti-Thyroid Hormone Receptor alpha antibody
Description	Rabbit polyclonal to Thyroid Hormone Receptor alpha
Host species	Rabbit
Tested applications	**Suitable for:** WB, IHC-P, ChIP, ICC/IF
Species reactivity	**Reacts with:** Mouse, Human
Immunogen	Synthetic peptide corresponding to Human Thyroid Hormone Receptor alpha aa 8-59.
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

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
Storage buffer	pH: 7.40 Preservative: 0.02% Sodium azide Constituents: 50% Glycerol, 0.87% Sodium chloride, PBS Without Mg+2 and Ca+2
Purity	Immunogen affinity purified
Purification notes	ab53729 was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab53729 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	★★★★☆ (7)	1/500 - 1/1000. Detects a band of approximately 55 kDa (predicted molecular weight: 55 kDa).
IHC-P		Use at an assay dependent concentration.
ChIP		Use at an assay dependent concentration.
ICC/IF		Use a concentration of 1 - 5 µg/ml.

Target

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

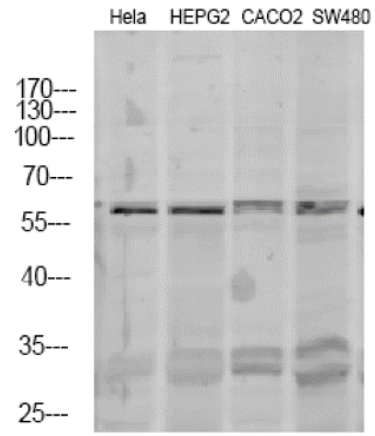
Involvement in disease Hypothyroidism, congenital, non-goitrous, 6

Sequence similarities Belongs to the nuclear hormone receptor family. NR1 subfamily.
Contains 1 nuclear receptor DNA-binding domain.

Domain Composed of three domains: a modulating N-terminal domain, a DNA-binding domain and a C-terminal ligand-binding domain.

Cellular localization Nucleus.

Images



Western blot - Anti-Thyroid Hormone Receptor alpha antibody (ab53729)

All lanes : Anti-Thyroid Hormone Receptor alpha antibody (ab53729) at 1/1000 dilution

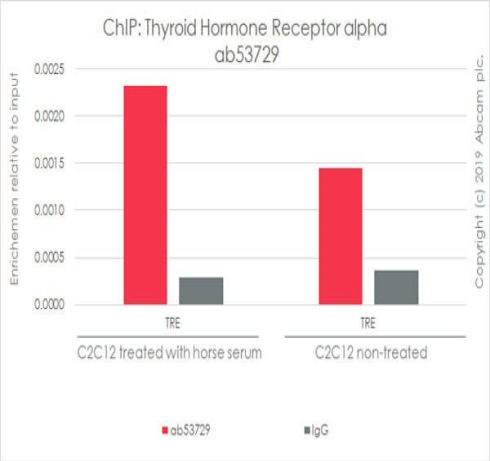
Lane 1 : HeLa
Lane 2 : HepG2
Lane 3 : CACO2
Lane 4 : SW480

Secondary
All lanes : Goat Anti-Rabbit IgG (H+L) HRP at 1/10000 dilution

Predicted band size: 55 kDa
Observed band size: 55 kDa

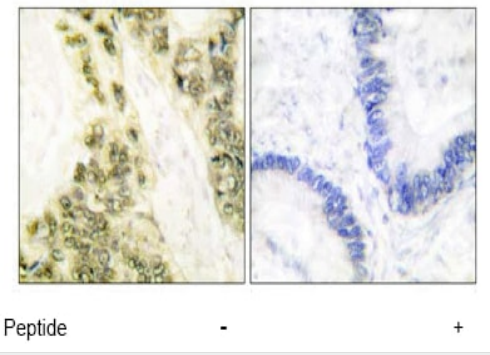
The molecular weight observed is consistent with what has been described in the literature.

Lot: 811200345



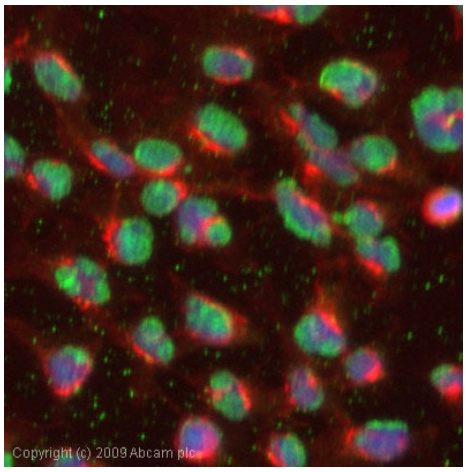
ChIP - Anti-Thyroid Hormone Receptor alpha antibody (ab53729)

Chromatin was prepared from C2C12 cells according to the Abcam X-ChIP protocol. Cells were fixed with 1% formaldehyde for 10 minutes. The ChIP was performed with 25µg of chromatin, 5µg of ab53729 (red), and 20µl of protein A/G sepharose beads slurry (10µl of sepharose A beads + 10µl of sepharose G beads). 5µg of rabbit normal IgG was added to the beads control (grey). The immunoprecipitated DNA was quantified by real time PCR (Sybr green approach).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Thyroid Hormone Receptor alpha antibody (ab53729)

ab53729 at 1/50 dilution staining Thyroid Hormone Receptor alpha in human colon carcinoma by Immunohistochemistry, Paraffin embedded tissue, in the absence or presence of the immunising peptide.



Immunocytochemistry/ Immunofluorescence - Anti-Thyroid Hormone Receptor alpha antibody (ab53729)

ICC/IF image of ab53729 stained Hek293 cells. The cells were 4% PFA fixed (10 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab53729, 1µg/ml) overnight at +4°C. The secondary antibody (green) was Alexa Fluor® 488 goat anti-rabbit IgG (H+L) used at a 1/1000 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM.

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit **https://www.abcam.com/abpromise** or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors