Product datasheet

Anti-Thyroid Hormone Receptor alpha antibody
ab53729

Overview

Product name
Anti-Thyroid Hormone Receptor alpha antibody

Description
Rabbit polyclonal to Thyroid Hormone Receptor alpha

Host species
Rabbit

Specificity
ab53729 detects endogenous levels of total Thyroid Hormone Receptor alpha 1 protein.

Tested applications
Suitable for: WB, IHC-P, ChIP, ICC/IF

Species reactivity
Reacts with: Human

Immunogen
Synthetic peptide derived from human Thyroid Hormone Receptor alpha.

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

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.
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.

Target

Images
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).

Application | Abreviews | Notes
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WB | | 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.
**Western blot - Anti-Thyroid Hormone Receptor alpha antibody (ab53729)**

All lanes: Anti-Thyroid Hormone Receptor alpha antibody (ab53729) at 1/500 dilution

Lane 1: SKOV3 cell extract

Lane 2: SKOV3 cell extract with immunising peptide

Predicted band size: 55 kDa

Observed band size: 55 kDa

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.

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

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