Product name: Anti-Thyroid Hormone Receptor beta antibody

Description: Rabbit polyclonal to Thyroid Hormone Receptor beta

Host species: Rabbit

Tested applications: Suitable for: ChIP, WB

Species reactivity: Reacts with: Mouse

Predicted to work with: Rat

Immunogen: Synthetic peptide corresponding to a region within N terminal amino acids 1-50 (MNYCMPEVHEVCPAASSNCYMQVTDDLYLVEDPALSGRDVQAVPSSSIY) of Mouse Thyroid Hormone (NP_033406; UniProt ID: P10828 isoform 2).

Positive control: Mouse muscle lysate

Properties

Form: Liquid


Storage buffer: Preservative: 0.09% Sodium azide
Constituents: 2% Sucrose, PBS

Purity: Immunogen affinity purified

Clonality: Polyclonal

Isotype: IgG

Applications

Our Abpromise guarantee covers the use of ab104417 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.
<table>
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<th>Application</th>
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<tr>
<td>ChIP</td>
<td></td>
<td>Use 10 µg for 100 µg of chromatin.</td>
</tr>
<tr>
<td>WB</td>
<td></td>
<td>Use a concentration of 1 µg/ml. Predicted molecular weight: 2, 54 kDa. Good results were obtained when blocked with 5% non-fat dry milk in 0.05% PBS-T.</td>
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</table>

**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 inappropriate 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 GTHR, 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.

**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**
Anti-Thyroid Hormone Receptor beta antibody (ab104417) at 1 µg/ml + Mouse muscle lysate at 10 µg

**Predicted band size:** 2, 54 kDa

Gel concentration: 12%

**Application:** ChIP  
**Sample Type:** mouse liver tissue  
**Chromatin Used:** 100ug tissue  
**Antibody Used:** 10ug  
**P = Positive genomic loci 1-3**

**Please note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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