

Anti-Thyroid hormone receptor alpha THRA Antibody

Catalog Number: A01775

About THRA

This antibody is suitable for Cancer, Immunology and Nuclear Signaling research. Thyroid hormone receptor alpha is a nuclear hormone receptor with high affinity for the hormone triiodo-thyronine. THRA is one of the several receptors for thyroid hormone, and has been shown to mediate the biological activities of thyroid hormone. Knockout studies in mice suggest that the different receptors, while having a certain extent of redundancy, may mediate different functions of thyroid hormone. THRA interacts with NCOA3 and NCOA6 co-activators, leading to a strong increase in transcription of target genes. THRA is localized within the nucleus and has been found to exist as 4 isoforms originating from alternative splicing variants. This antibody recognizes THRA isoform 1. Isoform 1 has a distinct C-terminus compared to isoform 2.

Overview

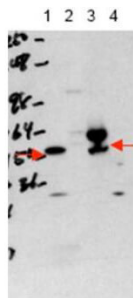
Product Name	Anti-Thyroid hormone receptor alpha THRA Antibody
Reactive Species	Human
Description	Boster Bio Anti-Thyroid hormone receptor alpha THRA Antibody (Catalog # A01775). Tested in ELISA, WB applications. This antibody reacts with Human.
Conjugate	HRP
Application	ELISA, IP, IF, IHC, WB
Clonality	Polyclonal
Formulation	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2, 0.01% (w/v) Sodium Azide
Storage Instructions	Store vial at -20°C prior to opening. Aliquot contents and freeze at -20°C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4°C as an undiluted liquid. Dilute only prior to immediate use. Expiration date is one (1) year from date of opening. (Ship on dry ice.)
Host	Rabbit
Uniprot ID	P10827-2

Technical Details

Immunogen	This affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to a region near the amino terminus of human THRA isoform 1 protein.
Predicted Reactive Species	Bovine, Mammalian
Isotype	IgG

Form	Liquid (sterile filtered)
Concentration	1.0mg/mL by UV absorbance at 280 nm
Purification	This product was affinity purified from monospecific antiserum by immunoaffinity chromatography. This antibody reacts with human THRA protein. A BLAST analysis was used to suggest cross-reactivity with THRA from mouse, human and rat based on a 100% homology with the immunizing sequence. Cross-reactivity with THRA from other sources has not been determined.
Suggested Dilutions	ELISA: 1:300,000 IHC: 1:200 IF Microscopy: 1:200 IP: 1:100 WB: 1:500 - 1:2,000 This affinity purified antibody has been tested for use in ELISA and western blotting.

Anti-Thyroid hormone receptor alpha THRA Antibody (A01775) Images



Western blot using Boster's affinity purified anti-THRA antibody shows detection of purified recombinant THRA (lane 1) and THRA present in a 293 cell lysate after transient transfection with THRA (lane 3). No staining is evident in lysates from mock-transfected 293 cells (lane 2). Endogenous THRA is not detected in mouse brain whole cell lysate (lane 4). Nuclear extracts may be required to detect endogenous THRA as the protein localizes within the nucleus. The band at ~55 kDa, indicated by the arrowhead, corresponds to THRA. Personal communication, S. Cheng and H. Ying, NCI, Bethesda, MD.

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