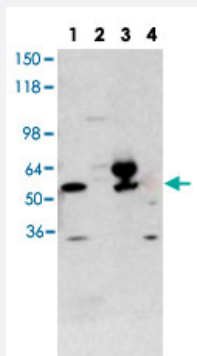


THRA polyclonal antibody

Catalog # PAB11276 Size 100 ug

Applications



Western Blot

Western blot using THRA polyclonal antibody (Cat # PAB11276) 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 tissue 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.

Specification

Product Description Rabbit polyclonal antibody raised against synthetic peptide of THRA.

Immunogen A synthetic peptide corresponding to N-terminus of human THRA.

Host Rabbit

Reactivity Human, Mouse, Rat

Form Liquid

Quality Control Testing Antibody Reactive Against Synthetic Peptide.

Recommend Usage ELISA (1:650000)
Western Blot (1:1000)
The optimal working dilution should be determined by the end user.

Storage Buffer In 20 mM KH₂PO₄, 150 mM NaCl, pH 7.2 (0.01% sodium azide)

Storage Instruction

Store at 4°C. For long term storage store at -20°C.
Aliquot to avoid repeated freezing and thawing.

Note

This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot

Western blot using THRA polyclonal antibody (Cat # PAB11276) 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 tissue 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.

- Immunoprecipitation

- Enzyme-linked Immunoabsorbent Assay

Gene Info — THRA

Entrez GeneID[7067](#)**Protein Accession#**[NP_955366;P10827-2](#)**Gene Name**

THRA

Gene Alias

AR7, EAR7, ERB-T-1, ERBA, ERBA1, MGC000261, MGC43240, NR1A1, THRA1, THRA2, c-ERBA-1

Gene Description

thyroid hormone receptor, alpha (erythroblastic leukemia viral (v-erb-a) oncogene homolog, avian)

Omim ID[190120](#)**Gene Ontology**[Hyperlink](#)**Gene Summary**

The protein encoded by this gene is a nuclear hormone receptor for triiodothyronine. It 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 certain extent of redundancy, may mediate different functions of thyroid hormone. Alternatively spliced transcript variants encoding distinct isoforms have been reported. [provided by RefSeq]

Other Designations

ERBA-related 7|OTTHUMP00000164470|avian erythroblastic leukemia viral (v-erb-a) oncogene homolog|thyroid hormone receptor alpha|thyroid hormone receptor, alpha|triiodothyronine receptor

Publication Reference

- [CREG1 stimulates brown adipocyte formation and ameliorates diet-induced obesity in mice.](#)

Hashimoto M, Kusudo T, Takeuchi T, Kataoka N, Mukai T, Yamashita H.
FASEB Journal 2019 Jul; 33(7):8069.

Application: WB, Mouse, C3H10T1/2 cells
- [Bisphenol A influences oestrogen- and thyroid hormone-regulated thyroid hormone receptor expression in rat cerebellar cell culture.](#)

Somogyi V, Horváth TL, Tóth I, Bartha T, Frenyó LV, Kiss DS, Jócsák G, Kerti A, Naftolin F, Zsarnovszky A.
Acta Veterinaria Hungarica 2016 Dec; 64(4):497.

Application: WB-Ce, Rat, Rat primary cerebellar cell cultures
- [Impaired adipogenesis caused by a mutated thyroid hormone alpha1 receptor.](#)

Ying H, Araki O, Furuya F, Kato Y, Cheng SY.
Molecular and Cellular Biology 2007 Mar; 27(6):2359.

Application: WB, Mouse, 3T3-L1 cells
- [Structural rearrangements in the thyroid hormone receptor hinge domain and their putative role in the receptor function.](#)

Nascimento AS, Dias SM, Nunes FM, Aparicio R, Ambrosio AL, Bleicher L, Figueira AC, Santos MA, de Oliveira Neto M, Fischer H, Togashi M, Craievich AF, Garratt RC, Baxter JD, Webb P, Polikarpov I.
Journal of Molecular Biology 2006 Jul; 360(3):586.
- [Pituitary resistance to thyroid hormone syndrome is associated with T3 receptor mutants that selectively impair beta2 isoform function.](#)

Wan W, Farboud B, Privalsky ML.
Molecular Endocrinology (Baltimore, Md.) 2005 Jun; 19(6):1529.

Application: WB-Tr, Monkey, CV-1 cells

Pathway

- [Neuroactive ligand-receptor interaction](#)

Disease

- [Alzheimer disease](#)
- [Cardiovascular Diseases](#)
- [Diabetes Complications](#)
- [Genetic Predisposition to Disease](#)
- [Metabolic Syndrome X](#)
- [Neoplasms](#)
- [Osteoporosis](#)
- [Prostate cancer](#)
- [Thyroid Neoplasms](#)