Anti-Thyroid Hormone Receptor alpha Antibody [JE40-49]

HA721663

Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human
Applications:	WB
Molecular Wt:	Predicted band size: 55 kDa
Clone number:	JE40-49

Description: Thyroid hormone receptor alpha (TR-alpha) also known as nuclear receptor subfamily 1, group A, member 1 (NR1A1), is a nuclear receptor protein that in humans is encoded by the THRA gene. 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. Mutations of the THRA gene may cause nongoitrous congenital hypothyroidism-6, a subtype of congenital hypothyroidism.

Immunogen: Synthetic peptide within Human Thyroid Hormone Receptor alpha aa 416-465 / 490.

Positive control: A431 cell lysate, SW480 cell lysate.

Subcellular location: Nucleus; Cytoplasm, Nucleus.

Database links: SwissProt: P10827 Human

Recommended Dilutions:

WB	1:1,000

Storage Buffer: 1*TBS (pH7.4), 0.05% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

Storage Instruction: Shipped at 4℃. Store at +4℃ short term (1-2 weeks). It is recommended to aliquot into single-use upon delivery. Store at -20℃ long term.

Purity: Protein A affinity purified.

Images

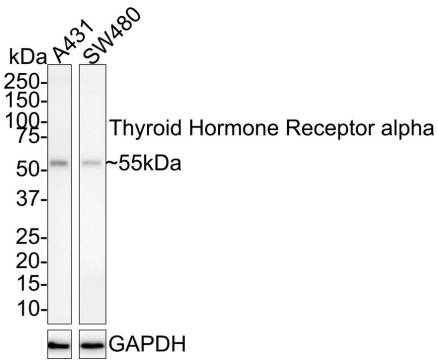

Fig1: Western blot analysis of Thyroid Hormone Receptor alpha on different lysates with Rabbit anti-Thyroid Hormone Receptor alpha antibody (HA721663) at 1/1,000 dilution.

Lane 1: A431 cell lysate
Lane 2: SW480 cell lysate

Lysates/proteins at 20 µg/Lane.

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

Exposure time: 3 minutes;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (HA721663) at 1/1,000 dilution was used in 5% NFDM/TBST at room temperature for 2 hours. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1:100,000 dilution was used for 1 hour at room temperature.

Background References

1. Liu S et al. Triiodothyronine (T3) promotes brown fat hyperplasia via thyroid hormone receptor α mediated adipocyte progenitor cell proliferation. Nat Commun. 2022 Jun
2. Han CR et al. Thyroid Hormone Receptor α Mutations Cause Heart Defects in Zebrafish. Thyroid. 2021 Feb