

Monoclonal Anti-human TR α /NR1A1 Antibody

ORDERING INFORMATION

Catalog Number: PP-H2804-00

Clone: H2804

GenBank: M24748

Ig Class: mouse IgG_{2A}

Volume: 100 μ L

Concentration: 1 mg/mL

Formulation: A liquid formulation in physiologic saline with 0.1% NaN₃

Storage: $\leq -20^{\circ}\text{C}$

Specificity: human TR α

Applications: Western Blot
Direct ELISA
Immunohistochemistry

Description

Thyroid Hormone Receptor alpha (TR α , THRA; NR1A1) is a member of the Nuclear Hormone Receptor superfamily. The ligands for TR α are the thyroid hormones, which exist in two forms: T4 and T3. TR α plays a critical role in the differentiation, growth, metabolism and physiology of a wide variety of tissues. The major partners of TRs are the Retinoid X Receptors (RXRs), which strongly enhance their ability to bind to specific DNA sequences and contribute to the specificity of TR.

Preparation

Produced in BALB/c mouse ascites after inoculation with a hybridoma of spleen cells of a BALB/c mouse immunized with recombinant human TR α (amino acids 2 - 51) and mouse myeloma cells (NS-1). The IgG fraction of the ascites fluid was purified by ammonium sulfate fractionation.

Formulation

A liquid formulation in physiologic saline with 0.1% NaN₃.

Storage

This antibody is stable for greater than six months when held at -20°C in a **manual defrost freezer** or at -70°C . Upon thawing, the antibody can be stored at $2-8^{\circ}\text{C}$ for at least 1 month without detectable loss of activity. **Avoid repeated freeze-thaw cycles.**

Specificity

This antibody specifically recognizes human TR α and cross-reacts with mouse and rat TR α . The antibody does not cross-react with human TR β . Not yet tested in other species.

Applications

Western Blot - This antibody can be used at 1 $\mu\text{g/mL}$ under reducing conditions and at 3 $\mu\text{g/mL}$ under non-reducing conditions with the appropriate secondary reagents to detect human TR α .

Direct ELISA - This antibody can be used at 0.1 $\mu\text{g/mL}$ with the appropriate secondary reagents to detect human TR α .

Immunohistochemistry - This antibody can be used at 20 - 50 $\mu\text{g/mL}$ with the appropriate secondary reagents to detect human TR α .

Optimal dilutions should be determined by each laboratory for each application.

Caution: Sodium azide may react with lead and copper plumbing to form explosive metal azides. Flush with large amounts of water during disposal.



Manufactured by:
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