

Mouse anti-T4 Monoclonal Antibody

Cat. No. CAB037 **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Source

Ascites

Antigen information

Thyroxine, or 3,5,3',5'-tetra-iodothyronine (often abbreviated as T4), a form of thyroid hormones is the major hormone secreted by the follicular cells of the thyroid gland. T4 is transported in blood, with 99.95% of the secreted T4 being protein bound, principally to thyroxine-binding globulin (TBG), and, to a lesser extent, to transthyretin and serum albumin. T4 is involved in controlling the rate of metabolic processes in the body and influencing physical development. Administration of thyroxine has been shown to significantly increase the concentration of nerve growth factor in the brains of adult mice. Note: Thyroxine is a prohormone and a reservoir for the active thyroid hormone triiodothyronine (T3). T4 is converted in the tissues by deiodinases to T3. The "D" isomer is called "Dextrothyroxine" and is used as a lipid modifying agent. The half-life of thyroxine once released into the blood circulatory system is about 1 week. The hormone was synthesised in 1927 by British chemists Charles Robert Harington and George Barger.

CAS number

7488-70-2

Molecular formula

C₁₅H₁₁I₄NO₄

Molar mass

776.87

Specificity

Cross-reactivity: T3 <1%; T2 <1%; rT3 <1%

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Clone	ML01T004
Host Animal	Mouse
Isotope	IgG2b, kappa
Immunogen	T4-BSA
Format	Purified, Liquid
Purification	>95% pure. Chromatographic methods
Concentration	2mg/ml (OD280nmX0.7)
Affinity Constant	4 x 10 ⁹
Buffer	0.02M PBS, pH 7.4
Preservative	None
Applications	Specific methodologies have not been tested using this product.
Storage	Short-term (up to 7 days) store at 2–8°C. Long term, aliquot and store at <-20°C.
GENE INFORMATION	
Synonyms	(S)-2-amino-3-(4-(4-hydroxy- 3,5-diiodophenoxy)- 3,5-diiodophenyl)propanoic acid

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