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 thyroi d hormones is the major hormone secreted by the follicular cells of the thyroid gland.T 4 is transported in blood, with 99.95% of the secreted T4 being protein bound, princip ally to thyroxine-binding globulin (TBG), and, to a lesser extent, to transthyretin and s erum 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 mi ce. Note: Thyroxine is a prohormone and a reservoir for the active thyroid hormone trii odothyronine (T3). T4 is converted in the tissues by deiodinases to T3. The "D" isome r is called "Dextrothyroxine" and is used as a lipid modifying agent. The half-life of thyr oxine once released into the blood circulatory system is about 1 week.The hormone w as synthesised in 1927 by British chemists Charles Robert Harington and George Bar ger.
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 109
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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