

Mouse anti-Triiodothyronine Monoclonal Antibody

Cat. No. CAB036 **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Source Ascites

Antigen information

Triiodothyronine, C₁₅H₁₂I₃NO₄, also known as T₃, is a thyroid hormone. Thyroid-stimulating hormone (TSH) activates the production of thyroxine (T₄) and T₃. This process is under regulation. In the hypothalamus, T₄ is converted to T₃. TSH is inhibited mainly by T₃. The thyroid gland releases greater amounts of T₄ than T₃, so plasma concentrations of T₄ are 40-fold higher than those of T₃. Most of the circulating T₃ is formed peripherally by deiodination of T₄ (85%), a process that involves the removal of iodine from carbon 5 on the outer ring of T₄. Thus, T₄ acts as prohormone for T₃. This thyroid hormone is similar to thyroxine but with one fewer iodine atoms per molecule. In addition, T₃ exhibits greater activity and is produced in smaller quantity. It is the most powerful thyroid hormone, and affects almost every process in the body, including body temperature, growth, and heart rate.

CAS number 6893-02-3

Molecular formula C₁₅H₁₂I₃NO₄

Molar mass 650.9776 g mol⁻¹

Specificity Cross-reactivity: T₃ 100%; T₄ <0.28%

Clone ML01T003

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Host Animal	Mouse
Isotope	IgG1, kappa
Format	Purified, Liquid
Purification	>95% pure (SDS-PAGE). Protein A chromatography Product is 0.2µm filtered.
Concentration	2.0mg/ml (OD280nm, E0.1% = 1.4)
Affinity Constant	5 x 10 ⁹ L/m
Buffer	10mM Phosphate, pH 7.4 containing 150mM Sodium chloride
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 <-40°C.

GENE INFORMATION

Synonyms	(2S)-2-amino-3- [4-(4-hydroxy-3-iodo-phenoxy)- 3,5-diiodo-phenyl]propanoic acid; triiodothyronine; T3; 3,3",5-triiodo-L-thyronine
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