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 109 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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