

## Mouse anti-Triiodothyronine Monoclonal Antibody

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

### SPECIFICATION

<b>Source</b>	Ascites
<b>Antigen information</b>	<p>Triiodothyronine, C<sub>15</sub>H<sub>12</sub>I<sub>3</sub>NO<sub>4</sub>, also known as T<sub>3</sub>, is a thyroid hormone. Thyroid-stimulating hormone (TSH) activates the production of thyroxine (T<sub>4</sub>) and T<sub>3</sub>. This process is under regulation. In the hypothalamus, T<sub>4</sub> is converted to T<sub>3</sub>. TSH is inhibited mainly by T<sub>3</sub>. The thyroid gland releases greater amounts of T<sub>4</sub> than T<sub>3</sub>, so plasma concentrations of T<sub>4</sub> are 40-fold higher than those of T<sub>3</sub>. Most of the circulating T<sub>3</sub> is formed peripherally by deiodination of T<sub>4</sub> (85%), a process that involves the removal of iodine from carbon 5 on the outer ring of T<sub>4</sub>. Thus, T<sub>4</sub> acts as prohormone for T<sub>3</sub>. This thyroid hormone is similar to thyroxine but with one fewer iodine atoms per molecule. In addition, T<sub>3</sub> 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.</p>
<b>CAS number</b>	6893-02-3
<b>Molecular formula</b>	C <sub>15</sub> H <sub>12</sub> I <sub>3</sub> NO <sub>4</sub>
<b>Molar mass</b>	650.9776 g mol <sup>-1</sup>
<b>Specificity</b>	Cross-reactivity: T <sub>3</sub> 100%; T <sub>4</sub> <0.28%
<b>Clone</b>	ML01T003
<b>Host Animal</b>	Mouse

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<b>Isotope</b>	IgG1, kappa
<b>Format</b>	Purified, Liquid
<b>Purification</b>	>95% pure (SDS-PAGE). Protein A chromatography Product is 0.2µm filtered.
<b>Concentration</b>	2.0mg/ml (OD280nm, E0.1% = 1.4)
<b>Affinity Constant</b>	5 x 10 <sup>9</sup> L/m
<b>Buffer</b>	10mM Phosphate, pH 7.4 containing 150mM Sodium chloride
<b>Preservative</b>	None
<b>Applications</b>	Specific methodologies have not been tested using this product.
<b>Storage</b>	Short term (up to 7 days) store at 2-8°C. Long term, aliquot and store at <-40°C.
<b>GENE INFORMATION</b>	
<b>Synonyms</b>	(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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