

## Mouse anti-T4 Monoclonal Antibody

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

### SPECIFICATION

<b>Source</b>	Ascites
<b>Antigen information</b>	<p>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.</p>
<b>CAS number</b>	7488-70-2
<b>Molecular formula</b>	C <sub>15</sub> H <sub>11</sub> I <sub>4</sub> NO <sub>4</sub>
<b>Molar mass</b>	776.87
<b>Specificity</b>	Cross-reactivity: T3 <1%; T2 <1%; rT3 <1%
<b>Clone</b>	ML01T004

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

<b>Host Animal</b>	Mouse
<b>Isotope</b>	IgG2b, kappa
<b>Immunogen</b>	T4-BSA
<b>Format</b>	Purified, Liquid
<b>Purification</b>	>95% pure. Chromatographic methods
<b>Concentration</b>	2mg/ml (OD280nmX0.7)
<b>Affinity Constant</b>	4 x 10 <sup>9</sup>
<b>Buffer</b>	0.02M PBS, pH 7.4
<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 <-20°C.

## GENE INFORMATION

**Synonyms** (S)-2-amino-3-(4-(4-hydroxy- 3,5-diiodophenoxy)- 3,5-diiodophenyl)propanoic acid

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