Total T3 (Mouse/Rat) ELISA Kit

Catalog # KA0925 Size 1 Kit

Specification

Product Description	Total T3 (Mouse/Rat) ELISA Kit is used for the quantitative measurement of triiodothyronine (T3) in mouse/rat serum or plasma.
Suitable Sample	Plasma, Serum
Sample Volume	25 uL
Label	HRP-conjugate
Detection Method	Colorimetric
Assay Type	Quantitative
Calibration Range	0.25 to 7.5 ng/mL
Reactivity	Mouse, Rat
Regulation Status	For research use only (RUO)
Storage Instruction	Store the kit at 4°C.

Applications

- Quantification

Publication Reference

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- Global loss of selenocysteine lyase in mice drives lipid accumulation in brown adipocytes.

  Briana K Shimada, Ashley N Ogawa-Wong, Antonio G Soares, Kayla A Hallam, Princess Jd Santiago, Kaitlyn Saelua, Kescher K Nakahara-Akita, Daniel J Torres, John D Brockman, Suguru Kurokawa, Kris L Ewell, Miyoko T Bellinger, Pamela Toh, Gabriela Lagatta Pamplona Remedios, Naghum Alfulaij, Sydonie M Swanson, Ali Seyedali, Ann Marie Zavacki, Marla J Berry, Lucia A Seale

  Am J Physiol Endocrinol Metab 2026 Feb; 330(2):E000.

- Targeted Disruption of Selenocysteine Lyase in Brown Adipocytes Controls Glutathione Peroxidase 1 and 4 Expression in Males.

  P J D Santiago, B K Shimada, N Alfulaij, K A Hallam, A G Soares, V Young, S M Swanson, G L Remedios, P Toh, L A Seale.

  Biological trace element research 2025 Dec; Epub:0.

  Application: Quant, Mouse, Serum

- SIRT7 suppresses energy expenditure and thermogenesis by regulating brown adipose tissue functions in mice.

  Tatsuya Yoshizawa, Yoshifumi Sato, Shihab U Sobuz, Tomoya Mizumoto, Tomonori Tsuyama, Md Fazlul Karim, Keishi Miyata, Masayoshi Tasaki, Masaya Yamazaki, Yuichi Kariba, Norie Araki, Eiichi Araki, Shingo Kajimura, Yuichi Oike, Thomas Braun, Eva Bober, Johan Auwerx, Kazuya Yamagata.

  Nature Communications 2022 Dec; 13(1):7439.

  Application: Quant, Mouse, Mouse brown adipose tissue, Mouse serum

- Hepatic thyroid hormone signalling modulates glucose homeostasis through the regulation of GLP-1 production via bile acid-mediated FXR antagonism.

  Ying Yan, Zhoumin Niu, Chao Sun, Peng Li, Siyi Shen, Shengnan Liu, Yuting Wu, Chuyu Yun, Tingying Jiao, Sheng Jia, Yuying Li, Zhong-Ze Fang, Lin Zhao, Jiqiu Wang, Cen Xie, Changtao Jiang, Yan Li, Xiaoyun Feng, Cheng Hu, Jingjing Jiang, Hao Ying.

  Nature Communications 2022 Oct; 13(1):6408.

  Application: Quant, Mouse, Mouse serum

- Adaptive Thermogenesis in a Mouse Model Lacking Selenoprotein Biosynthesis in Brown Adipocytes.

  Lucia A Seale, Ashley N Ogawa-Wong, Ligia M Watanabe, Vedbar S Khadka, Mark Menor, Daniel J Torres, Bradley A Carlson, Dolph L Hatfield, Marla J Berry.

  International Journal of Molecular Sciences 2021 Jan; 22(2):611.

  Application: Quant, Mouse, Mouse serum

- Effects of citrate ester plasticizers and bis (2-ethylhexyl) phthalate in the OECD 28-day repeated-dose toxicity test (OECD TG 407).

  Xu Y, Park SH, Yoon KN, Park SJ, Gye MC.

  Environmental Research 2019 May; 172:675.

  Application: Quant, Mouse, Mouse serum

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- Impaired thermoregulation and beneficial effects of thermoneutrality in the 3xTg-AD model of Alzheimer's disease (AD).

  Vandal M, Phillip WJ, Tournissac M, Tremblay C, St-Amour I, Drouin-Ouellet J, Bousquet M, Traversy M, Planel E, Marette A, Calon F.

  Neurobiology of Aging 2016 Mar; 43:47.

  Application: Quan, Mouse, Mouse plasma

- Thyroid hormones regulate anxiety in the male mouse.

  Buras A, Battle L, Landers E, Nguyen T, Vasudevan N.

  Hormones and Behavior 2014 Feb; 65(2):88.

  Application: ELISA, Mouse, Serum

- Hypoxic preconditioning increases triiodothyronine (T3) level in the developing rat brain.

  Minato K, Tomimatsu T, Mimura K, Jugder O, Kakigano A, Kanayama T, Fujita S, Taniguchi Y, Kanagawa T, Endo M, Kimura T.

  Brain Research 2013 Jan; 1501:89.

  Application: Quan, Rat, serum, brain

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