Datasheet for ABIN1326896

Thyroxine T4 ELISA Kit

3 Publications

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Overview

Quantity:	96 tests
Target:	Thyroxine T4 (T4)
Binding Specificity:	Whole Molecule
Reactivity:	Rat, Mouse
Method Type:	Competition ELISA
Application:	ELISA

Product Details

Purpose:	The T4 is a solid phase competitive ELISA. The samples and the diluted T4 enzyme conjugate are added to the wells coated with anti-T4 polyclonal antibody. T4 in the serum competes with a T4 enzyme (HRP) conjugate for binding sites. Unbound T4 and T4 enzyme conjugate is washed off by wash buffer during a wash step. Upon the addition of the substrate, the intensity of color is inversely proportional to the concentration of T4 in the samples. A standard curve is generated relating color intensity to the concentration of the T4.
Sample Type:	Serum
Analytical Method:	Quantitative
Detection Method:	Colorimetric

Target Details

Target:	Thyroxine T4 (T4)
Alternative Name:	T4 (T4 Products)

Target Details

Target Type:	Amino Acid
Background:	T4 is a useful marker for the diagnosis of hypothyroidism and hyperthyroidism. The level of T4 is decreased in hypothyroid and is increased in hyperthyroid. The level of T4 is normal in Euthyroid conditions.

Application Details

Plate:	Pre-coated
Restrictions:	For Research Use only

Handling

Storage:	4 °C

Publications

Product cited in:	Srivastava, Robertson, Gredler, Siddiq, Rajasekaran, Akiel, Emdad, Mas, Mukhopadhyay, Fisher, Sarkar: "Astrocyte Elevated Gene-1 (AEG-1) Contributes to Non-thyroidal Illness Syndrome (NTIS) Associated with Hepatocellular Carcinoma (HCC)." in: **The Journal of biological chemistry**, Vol. 290, Issue 25, pp. 15549-58, (2015) (PubMed). Holthoff, Goebel, Li, Faßbender, Reimann, Zeibig, Lohse, Münch, Ungerer: "Prolonged TSH receptor A subunit immunization of female mice leads to a long-term model of Graves' disease, tachycardia, and cardiac hypertrophy." in: **Endocrinology**, Vol. 156, Issue 4, pp. 1577-89, (2015) (PubMed). Hezel, Liu, Schiffer, Larsen, Checa, Wheelock, Carlström, Lundberg, Weitzberg: "Effects of long-term dietary nitrate supplementation in mice." in: **Redox biology**, Vol. 5, pp. 234-242, (2015) (PubMed).