

Human Reverse Tri-iodothyronine (RT3) ELISA Kit | RT3 elisa kit

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CATALOG #
AAA330980

REACTIVITY
Human

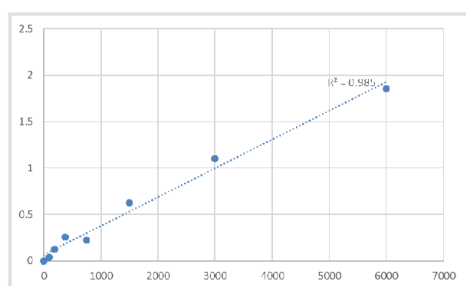
PRODUCT SYNONYMS

Reverse Tri-iodothyronine (RT3); Human Reverse Tri-iodothyronine (RT3) ELISA Kit; RT3 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human ReverseTri-iodothyronine (RT3) ELISA Kit has high sensitivity and excellent specificity for detection of Human RT3. No significant cross-reactivity or interference between Human RT3 and analogues was observed.
Assay Type	Sandwich ELISA (Quantitative)
Samples	Cell Culture Supernatants, Serum, Plasma, Other Biological Fluids
Detection Method	Colorimetric
Usage Notes	* Do not mix components from different kit lots or use reagents beyond the kit expiration date. * Allow all reagents to warm to room temperature for at least 30 minutes before opening. * Pre-rinse the pipet tip with reagent, use fresh pipet tips for each sample, standard and reagent to avoid contamination. * Unused wells must be kept desiccated at 4 degree C in the sealed bag provided. * Mix Thoroughly is very important for the result. It is recommended using low frequency oscillator or slight hand shaking every 10 minutes. * It is recommended that all samples and standards be assayed in duplicate or triplicate.
Preparation and Storage	Store at 2-8 degree C.

IMAGES



Standard Curve (Sample)

Fig.1. Human ReverseTri-iodothyronine (RT3) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for RT3 elisa kit	Description: This Human ReverseTri-iodothyronine (RT3) ELISA Kit employs a two-site sandwich ELISA to quantitate RT3 in samples. An antibody specific for RT3 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any RT3 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for RT3 is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of RT3 bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: Reverse triiodothyronine is a molecule which is an isomer of triiodothyronine (T3). It is derived from thyroxine (T4) through the action of deiodinase.rT3, unlike T3, does not stimulate thyroid hormone receptors. However, rT3 nonetheless binds to these receptors, thereby blocking the action of T3. Under stress conditions, the adrenal glands produce excess amounts of cortisol. Cortisol inhibits the conversion of T4 to T3, thus shunting T4 conversion from T3 towards rT3. Consequently, there is a widespread shutdown in T3 binding across the body. This condition is termed Reverse T3 Dominance. It results in reduced body temperature, which slows the action of many enzymes, leading to a clinical syndrome, Multiple Enzyme Dysfunction, which produces the effects seen in hypothyroidism. Effects include fatigue, headache, migraine, PMS, irritability, fluid retention, anxiety and panic.
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For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/human-elisa-kits/reverse-tri-iodothyronine-rt3/330980>