

## ARG80892 Human TPO / Thyroid Peroxidase autoantibodies ELISA Kit

Package: 96 wells  
Store at: 4°C

### Summary

Product Description	ARG80892 Human TPO / Thyroid Peroxidase autoantibodies ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human Thyroid Peroxidase autoantibodies in serum and plasma (EDTA, heparin, citrate) (1:100 diluted).
Tested Reactivity	Hu
Tested Application	ELISA
Target Name	TPO / Thyroid Peroxidase autoantibody
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm
Sensitivity	5 IU/ml
Sample Type	Serum and plasma (EDTA, heparin, citrate) (1:100 diluted).
Standard Range	33 - 3,000 IU/ml
Sample Volume	10 µl

### Application Instructions

Assay Time	30, 15, 15, 5 min (RT)
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### Properties

Form	96 well
Storage instruction	Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components.
Note	For laboratory research only, not for drug, diagnostic or other use.

### Bioinformation

Gene Full Name	Thyreoidal Peroxidase Autoantibodies (TPO-Ab)
Background	<p>Thyroid disorders are the most prevalent of all autoimmune diseases. Thyroid autoimmune diseases are associated with the occurrence of differentiated autoantibodies and are thought to be related to a genetical pre-disposition. These autoantibodies are directed against membrane- located and/or extracellular antigens of the thyroid cells:</p> <p>Human Thyroglobulin (hTG), a water soluble glycoprotein with a molecular weight of approx. 660.000 Dalton, is the principal constituent of the thyroidal colloid sharing about 75 % of its mass. Synthesis of the thyroid hormones T3 and T4 is based on the oxidative iodination of tyrosine residues of the thyroglobulin molecule. Within the cell thyroglobulin is transported by the microsomes. Together with the secretion of T3 and T4 also small amounts of hTG are liberated into circulation.</p> <p>The microsomal antigen of the thyroid is an integral membrane protein of the microsomes. It has been characterised as the enzyme Thyroid Peroxidase (TPO) with a molecular weight of nearly 110.000</p>

Dalton.

The TSH-Receptor is a regulatory protein embedded into the thyroid cell membrane effecting synthesis and release of the thyroid hormones as well as cellular growth.

The so-called Colloid-Antigen 2 CA2.

#### Highlight

Related products:

[Thyroid Peroxidase antibodies](#); [Thyroid Peroxidase ELISA Kits](#);

New ELISA data calculation tool:

[Simplify the ELISA analysis by GainData](#)

#### Research Area

Immune System kit