

Datasheet for ABIN2132174

**Thyroperoxidase Protein (full length)**[Go to Product page](#)

## Overview

Quantity:	1 mg
Target:	Thyroperoxidase (TPO)
Protein Characteristics:	full length
Origin:	Human
Source:	Insect cells (Sf9)
Protein Type:	Recombinant
Application:	Western Blotting (WB), ELISA

## Product Details

Characteristics:	Purified recombinant Human Thyroid Peroxidase protein Expression System: Sf-9 insect cells
Purification:	Proprietary chromatographic technique
Purity:	> 95 % pure

## Target Details

Target:	Thyroperoxidase (TPO)
Alternative Name:	Thyroid Peroxidase ( <a href="#">TPO Products</a> )
Background:	Thyroid Peroxidase (TPO) represents one of the main autoantigenic targets in autoimmune thyroid disease of humans. Its identity with the formerly so-called 'microsomal antigen' has been shown several years ago. As an integral membrane glycoprotein it is restricted to the apical plasma membrane of the follicular epithelial cells and comprises two identical subunits

## Target Details

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of approx. 100 kDa molecular weight. The hemoprotein TPO plays a key role in the thyroid hormone biosynthesis by catalysing both the iodination of tyrosyl residues and the coupling of iodotyrosyl residues in thyroglobulin (TG) to form precursors of the thyroid hormones T4 and T3.

Alternative Names: TPX protein, MSA protein, TPO protein

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Molecular Weight: 101 kDa

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Pathways: [Thyroid Hormone Synthesis](#)

## Application Details

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Application Notes: Each Investigator should determine their own optimal working dilution for specific applications.

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Restrictions: For Research Use only

## Handling

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Format: Liquid

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Buffer: 16 mM HEPES, pH 7.6, with 166 mM NaCl, 0.06 mM KI and 20 % glycerol.

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Handling Advice: Avoid repeated freeze/thaw cycles.

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Storage: 4 °C/-20 °C

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Storage Comment: Store at 4 °C for short term storage. Aliquot and store at -20 °C for long term storage.