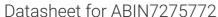
antibodies -online.com







Thyroperoxidase Protein (AA 32-834) (His tag)





Overview

Quantity:	100 μg
Target:	Thyroperoxidase (TPO)
Protein Characteristics:	AA 32-834
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Thyroperoxidase protein is labelled with His tag.

Product Details

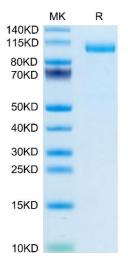
Purpose:	Mouse Thyroid Peroxidase Protein
Sequence:	Gly32-Arg834
Characteristics:	Recombinant Mouse Thyroid Peroxidase Protein is expressed from HEK293 with His tag at the C-Terminus.It contains Gly32-Arg834.
Purity:	> 95 % as determined by Tris-Bis PAGE,> 95 % as determined by HPLC
Sterility:	0.22 μm filtered
Endotoxin Level:	Less than 1EU per µg by the LAL method.

Target Details

Target:	Thyroperoxidase (TPO)
Alternative Name:	Thyroid Peroxidase (TPO Products)

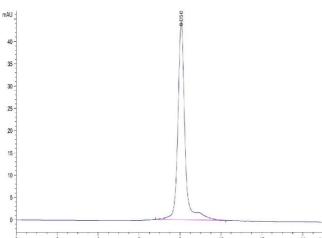
Target Details

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Background:	Thyroid peroxidase, also called thyroperoxidase (TPO) or iodide peroxidase that encodes a 933 amino-acid residue (aa) molecule with a single membrane-spanning region. Thyroid peroxidase plays a key role in thyroid hormone synthesis by catalyzing both the iodination of tyrosine residues to form monoiodotyrosine (MIT) and diiodotyrosine (DIT) residues and the coupling of iodotyrosine residues in Tg, resulting in the formation of T3 and T4. It is a frequent epitope of autoantibodies in autoimmune thyroid disease, for example, the expression of thyroid peroxidase is lost in papillary thyroid carcinoma.
Molecular Weight:	90.6 kDa. Due to glycosylation, the protein migrates to 100-115 kDa based on Tris-Bis PAGE result.
UniProt:	P35419
Pathways:	Thyroid Hormone Synthesis
Application Details	
Restrictions:	For Research Use only
Handling	
Format:	Lyophilized
Reconstitution:	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/mL is recommended. Dissolve the lyophilized protein in distilled water.
Buffer:	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8 % trehalose is added as protectant before lyophilization.
Storage:	-20 °C,-80 °C
Storage Comment:	-20 to -80°C for 12 months as supplied from date of receipt.,-80°C for 3-6 months after reconstitution.,2-8°C for 2-7 days after reconstitution.,Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
Expiry Date:	12 months



SDS-PAGE

Image 1. Mouse TPO/Thyroid Peroxidase on Tris-Bis PAGE under reduced condition. The purity is greater than 95 % .



Size-exclusion chromatography-High Pressure Liquid Chromatography

Image 2. The purity of Mouse TPO/Thyroid Peroxidase is greater than 95 % as determined by SEC-HPLC.