

# Product Datasheet

## Thyroid Peroxidase Antibody

### NBP2-27544

Unit Size: 0.1 mg

Store at -20C. Avoid freeze-thaw cycles.

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**NBP2-27544**

## Thyroid Peroxidase Antibody

Product Information	
Unit Size	0.1 mg
Concentration	0.5 mg/ml
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	Tris saline (20 mM Tris pH 7.3, 150 mM NaCl), 0.5% BSA

Product Description	
Host	Goat
Gene ID	7173
Gene Symbol	TPO
Species	Human
Specificity/Sensitivity	This antibody is expected to recognize all reported isoforms (NP_000538.3; NP_783650.1; NP_783652.1; NP_783653.1).
Immunogen	Peptide with sequence ELRCGKHQAVGTSPQ corresponding to C-Terminus according to NP_000538.3, NP_783650.1, NP_783652.1, NP_783653.1.

Product Application Details	
Applications	Western Blot, Immunohistochemistry, Immunohistochemistry-Paraffin, Peptide ELISA
Recommended Dilutions	Western Blot 0.1 - 0.3 ug/ml, Immunohistochemistry 5 - 10 ug/ml, Immunohistochemistry-Paraffin 5-10 ug/ml, Peptide ELISA Detection limit 1:32000
Application Notes	WB: Approx. 110 kDa band observed in human thyroid gland lysates (calculated MW of 103 kDa band according to NP_000538.3). IHC-P: Human thyroid gland shows textured staining in the cytoplasm of epithelial cells.

## Images

Western Blot: Thyroid Peroxidase Antibody [NBP2-27544] - (0.1 ug/ml) Analysis of Thyroid Gland lysate (35 ug protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

250kDa  
150kDa  
100kDa  
75kDa  
50kDa  
37kDa  
25kDa  
20kDa

Immunohistochemistry-Paraffin: Thyroid Peroxidase Antibody [NBP2-27544] - Staining of Human Thyroid Gland. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.



## Publications

Wiseman SM, Memarnejadian A, Boyce GK et al. Subcutaneous transplantation of human thyroid tissue into a pre-vascularized Cell Pouch(TM) device in a Mus musculus model: Evidence of viability and function for thyroid transplantation PloS one 2022-01-20 [PMID: 35051203] (IF/IHC, Human)

Chen CR, Hamidi S, Braley-Mullen H et al. Antibodies to thyroid peroxidase arise spontaneously with age in NOD.H-2h4 mice and appear after thyroglobulin antibodies. Endocrinology 2010-09-01 [PMID: 20573721]



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### **Products Related to NBP2-27544**

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HAF017	Rabbit anti-Goat IgG Secondary Antibody [HRP (Horseradish Peroxidase)]
HAF109	Donkey anti-Goat IgG Secondary Antibody [HRP (Horseradish Peroxidase)]
NB410-28088-1mg	Goat IgG Isotype Control
H00007173-Q01-10ug	Recombinant Human Thyroid Peroxidase GST (N-Term) Protein

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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