Data Sheet (Cat.No.TMAB-01837)

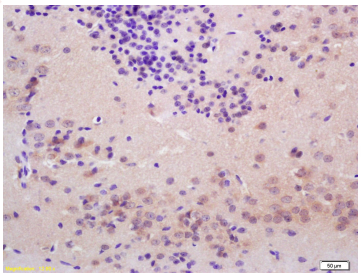
Anti-Thyroid peroxidase Polyclonal Antibody

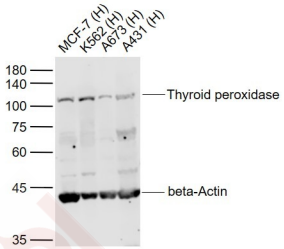
Product Details

Ig Type:	IgG
Reactivity:	Human,Rat (predicted:Mouse)
Molecular Weight:	Theoretical: 101 kDa. Actual: 105 kDa.
Purification:	Protein A purified

Applications

Verified Activity:	1. Tissue/cell: Rat brain; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH6.0), Boiling bathing for 15 min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30 min; Blocking buffer (normal goat serum) at 37°C for 20 min; Incubation: Anti-Thyroid peroxidase Polyclonal Antibody, Unconjugated (TMAB-01837) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody and DAb staining. 2. Sample: Lane 1: MCF-7 (Human) Cell Lysate at 30 µg Lane 2: K562 (Human) Cell Lysate at 30 µg Lane 3: A673 (Human) Cell Lysate at 30 µg Lane 4: A431 (Human) Cell Lysate at 30 µg Primary: Anti-Thyroid peroxidase (TMAB-01837) at 1/1000 dilution Anti-beta-Actin at 1/2000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 101 kDa Observed band size: 105 kDa





Application:	IF,IHC-Fr,IHC-P,WB
Recommended	WB: 1:500-2000; IHC-P: 1:100-500; IHC-Fr: 1:100-500; IF: 1:100-500

Properties

Stability & Storage:	Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	KLH conjugated synthetic peptide: human Thyroid peroxidase
Antigen Species:	Human
Gene ID:	7173
Uniprot ID:	P07202
Synonyms:	thyroid peroxidase;TDH2A;TPX;MSA
Biology Area:	Cellular metabolic process,Hormone biosynthesis,Hormone biosynthesis,Antioxidants,Thyroid axis,Hormones

Research Background

This gene encodes a membrane-bound glycoprotein. The encoded protein acts as an enzyme and plays a central role in thyroid gland function. The protein functions in the iodination of tyrosine residues in thyroglobulin and phenoxy-ester formation between pairs of iodinated tyrosines to generate the thyroid hormones, thyroxine and triiodothyronine. Mutations in this gene are associated with several disorders of thyroid hormonogenesis, including congenital hypothyroidism, congenital goiter, and thyroid hormone organification defect IIA. Multiple transcript variants encoding distinct isoforms have been identified for this gene, but the full-length nature of some variants has not been determined. [provided by RefSeq, May 2011].

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