



Goat anti-thyroid peroxidase Antibody

Item Number	dAP-2488
Target Molecule	Principle Name: thyroid peroxidase; Official Symbol: TPO; All Names and Symbols: TPO; thyroid peroxidase; MSA; TDH2A; TPX; OTTHUMP00000115535; OTTHUMP00000115536; thyroid microsomal antigen; thyroperoxidase; Accession Number (s): NP_000538.3; NP_783650.1; NP_783652.1; NP_783653.1; Human Gene ID(s): 7173; Non-Human GeneID(s):
Immunogen	ELRCGKHQAVGTSPQ, is from C Terminus This antibody is expected to recognize all reported isoforms (NP_000538.3; NP_783650.1; NP_783652.1; NP_783653.1). Reported variants represent identical protein: NP_000538.3, NP_001193673.1 Reported
Applications	Pep ELISA, WB, IHC Species Tested: Human
Purification	Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.
Supplied As	lyophilized powder of 50ug or 100ug IgG; Reconstitute IgG with 100ul or 200ul sterile DI Water and final product will be formulated as 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin. Aliquot and store at -20°C. Minimize freezing and thawing.
Peptide ELISA	Peptide ELISA: antibody detection limit dilution 1 to 32000.
Western Blot	Western Blot: Approx 110kDa band observed in Human Thyroid Gland lysates (calculated MW of 103kDa according to NP_000538.3). Recommended concentration: 0.1-0.3µg/ml.
IHC	Immunohistochemistry: In paraffin embedded Human Thyroid Gland shows textured staining in the cytoplasm of epithelial cells. Recommended concentration, 5-10µg/ml.
Reference	Reference(s): Chen CR, Hamidi S, Braley-Mullen H, Nagayama Y, Bresee C, Aliesky HA, Rapoport B, McLachlan SM. Antibodies to thyroid peroxidase arise spontaneously with age in NOD.H-2h4 mice and appear after thyroglobulin antibodies. Endocrinology. 2010 Sep;151(9):4583-93..PMID: 20573721->

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**