

Rabbit Anti-Thyroid peroxidase , Alexa Fluor® 750 conjugated antibody

SL10406R-AF750

Product Name	Thyroid peroxidase, Bodipy Fluor 750 conjugated
Chinese Name	AF750 标记的甲状腺过氧化物酶抗体
Alias	MSA; PERT_HUMAN; TDH2A; Thyroid microsomal antigen; Thyroid peroxidase; Thyroperoxidase; TPO; TPX.
Research Area	Tumour Cell biology immunology Neurobiology Signal transduction Growth factors and hormones Kinases and Phosphatases Endocrinopathy
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Human,Rat(predicted:Mouse) IF=1:100-500
Applications	not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Theoretical molecular weight	101kDa
Cellular localization	The cell membrane Extracellular matrix
Form	Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human Thyroid peroxidase: 111-210/933 <Extracellular>
Lsotype	IgG
Purification	affinity purified by Protein A
Buffer Solution	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.
Storage	Shipped at 4°C. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Attention	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
PubMed	PubMed
Product Detail	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].

Function:

Iodination and coupling of the hormonogenic tyrosines in thyroglobulin to yield the thyroid hormones T(3) and T(4).

Subunit:

Interacts with DUOX1, DUOX2 and CYBA.

Subcellular Location:

Membrane; Single-pass type I membrane protein.
Isoform 3: Cell surface.

Post-translational modifications:

Glycosylated.

DISEASE:

Note=An alternative splicing in the thyroperoxidase mRNA can cause Graves' disease.

Defects in TPO are the cause of thyroid dyshormonogenesis 2A (TDH2A) [MIM:274500]. A disorder due to defective conversion of accumulated iodide to organically bound iodine. The iodide organification defect can be partial or complete.

Similarity:

Belongs to the peroxidase family. XPO subfamily.
Contains 1 EGF-like domain.
Contains 1 Sushi (CCP/SCR) domain.

SWISS:

P35419

Gene ID:

7173

Database links:



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[Entrez Gene: 7173](#) Human

[Omim: 606765](#) Human

[SwissProt: P07202](#) Human

[Unigene: 467554](#) Human