10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

TPO Antibody (monoclonal) (M08)

Mouse monoclonal antibody raised against a partial recombinant TPO.
Catalog # AT4322a

Product Information

Application	WB, E
Primary Accession	P07202
Other Accession	NM_000547
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG2b Kappa
Clone Names	2A11
Calculated MW	102963

Additional Information

Gene ID	7173
Other Names	Thyroid peroxidase, TPO, TPO
Target/Specificity	TPO (NP_000538.3, 672 a.a. ~ 779 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	TPO Antibody (monoclonal) (M08) is for research use only and not for use in diagnostic or therapeutic procedures.

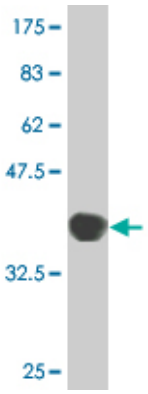
Background

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. Additional splice variants have been described but their biological natures have not been determined.

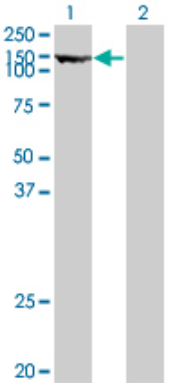
References

Personalized smoking cessation: interactions between nicotine dose, dependence and quit-success genotype score. Rose JE, et al. Mol Med, 2010 Jul-Aug. PMID 20379614.New genetic associations detected in a host response study to hepatitis B vaccine. Davila S, et al. Genes Immun, 2010 Apr. PMID 20237496.Lack of a role for cross-reacting anti-thyroid antibodies in chronic idiopathic urticaria. Mozena JD, et al. J Invest Dermatol, 2010 Jul. PMID 20182447.Thyroid peroxidase gene mutations causing congenital hypothyroidism in three Turkish families. Ozbek MN, et al. J Pediatr Endocrinol Metab, 2009 Nov. PMID 20101889.Hemostatic gene polymorphisms in young Sardinian with non-fatal acute myocardial infarction. Musino L, et al. Front Biosci (Elite Ed), 2010 Jan 1. PMID 20036902.

Images

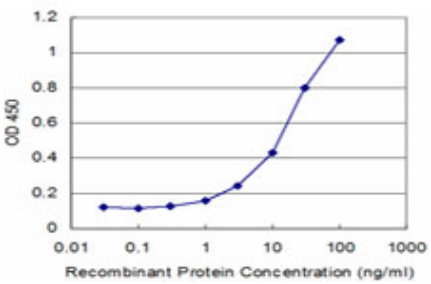


Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (37.62 KDa) .



Western Blot analysis of TPO expression in transfected 293T cell line by TPO monoclonal antibody (M08), clone 2A11.

Lane 1: TPO transfected lysate(102.9 KDa).
Lane 2: Non-transfected lysate.



Detection limit for recombinant GST tagged TPO is approximately 1ng/ml as a capture antibody.