

DIO1 monoclonal antibody (M01), clone 1E4

Catalog # H00001733-M01

Size 100 ug

Specification

Product Description	Mouse monoclonal antibody raised against a partial recombinant DIO1.
Immunogen	DIO1 (NP_000783.2, 35 a.a. ~ 125 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	DRVKRNILAMGEKTGMTRNPHFSHDNWIPTFSTQYFWFVLKVRWQRLEDTTGLGLAPNCPVV RLSGQRCNWEFMQGNRPLVLNFGSCT
Host	Mouse
Reactivity	Human
Interspecies Antigen Sequence	Mouse (80); Rat (81)
Isotype	IgG2a Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein.
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- ELISA

Gene Info — DIO1

Entrez GeneID	1733
GeneBank Accession#	NM_000792

Protein Accession#	NP_000783.2
Gene Name	DIO1
Gene Alias	5DI, MGC130050, MGC130051, TXDI1
Gene Description	deiodinase, iodothyronine, type I
Omim ID	147892
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene is a thiol-requiring propylthiouracil-sensitive oxidoreductase. It activates thyroid hormone by converting the prohormone thyroxine (T4) by outer ring deiodination (ORD) to bioactive 3,3',5-triiodothyronine (T3). It also degrades both hormones by inner ring deiodination (IRD). Alternative splicing results in multiple transcript variants encoding different isoforms. Some, but not all, isoforms contain a selenocysteine (Sec) residue encoded by the UGA codon, which normally signals translation termination. The 3' UTR of Sec-containing genes have a common stem-loop structure, the sec insertion sequence (SECIS), which is necessary for the recognition of UGA as a Sec codon rather than as a stop signal. Additional transcript variants have been described but are not supported by experimental evidence. [provided by RefSeq]
Other Designations	OTTHUMP00000010105 OTTHUMP00000010106 thyroxine deiodinase type I (selenoprotein) type-I 5'deiodinase

Disease

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