

## Product datasheet for **TA305836**

### DIO2 Goat Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IHC
Recommended Dilution:	IHC: 2-3ug/ml.
Reactivity:	Mouse (Expected from sequence similarity: Human, Rat, Pig)
Host:	Goat
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Peptide with sequence EVKKHQEQEDRC, from the internal region of the protein sequence according to NP_000784.2; NP_054644.1; NP_001007024.1.
Formulation:	0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin
Concentration:	lot specific
Purification:	Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide. Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin. Aliquot and store at -20C. Minimize freezing and thawing.
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	deiodinase, iodothyronine, type II
Database Link:	<a href="#">NP_000784</a> <a href="#">Entrez Gene 13371 Mouse</a> <a href="#">Entrez Gene 65162 Rat</a> <a href="#">Entrez Gene 1734 Human</a> <a href="#">Q92813</a>



[View online »](#)

**Background:**

The protein encoded by this gene belongs to the iodothyronine deiodinase family. It activates thyroid hormone by converting the prohormone thyroxine (T4) by outer ring deiodination (ORD) to bioactive 3,3',5-triiodothyronine (T3). It is highly expressed in the thyroid, and may contribute significantly to the relative increase in thyroidal T3 production in patients with Graves disease and thyroid adenomas. This protein contains selenocysteine (Sec) residues 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. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq]

**Synonyms:**

5DII; D2; DIOII; SelY; TXDI2

**Protein Families:**

Druggable Genome

**Product images:**

TA305836 (2ug/ml) staining of PFA-fixed cryo-sectioned Mouse Hippocampus. Microwaved antigen retrieval with citrate buffer pH 4.5, HRP-staining.