

## Product datasheet for **TA360550**

### DIO2 Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	WB
Reactivity:	Human, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	The immunogen is a synthetic peptide directed towards the middle region of human DIO2
Specificity:	<b>Expected reactivity:</b> Human
Formulation:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose. <i>Note that this product is shipped as lyophilized powder to China customers.</i>
Concentration:	lot specific
Purification:	Affinity purified
Conjugation:	Unconjugated
Storage:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	30 kDa
Gene Name:	deiodinase, iodothyronine, type II
Database Link:	<a href="#">NP_000784.2</a> <a href="#">Entrez Gene 65162 Rat</a> <a href="#">Entrez Gene 1734 Human</a> <a href="#">Q92813</a>



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**Background:**

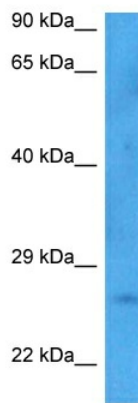
The protein encoded by this gene belongs to the iodothyronine deiodinase family. It activates thyroid hormone by converting the prohormone thyroxine (T4) by outer ring deiodination (ORD) to bioactive 3,3',5-triiodothyronine (T3). It is highly expressed in the thyroid, and may contribute significantly 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.

**Synonyms:**

5DII; D2; DIOII; ITDI2; SelY; TXDI2

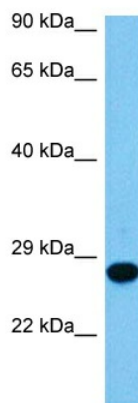
**Protein Families:**

Druggable Genome

**Product images:**


Host: Rabbit  
 Target Name: DIO2  
 Sample Type: ACHN Cell Lysate  
 Antibody Dilution: 1.0µg/ml

Host: Rabbit  
 Target Name: DIO2  
 Sample Tissue: ACHN Whole Cell lysates  
 Antibody Dilution: 1ug/ml



Host: Rabbit  
 Target Name: Dio2  
 Sample Type: Rat Skeletal Muscle Lysate  
 Antibody Dilution: 1.0µg/ml

Host: Rat  
 Target Name: DIO2  
 Sample Tissue: Rat Skeletal Muscle  
 Antibody Dilution: 1ug/ml