

**Anti-DIO3 Antibody**  
**Rabbit polyclonal antibody to DIO3**  
**Catalog # AP59538****Specification**

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**Anti-DIO3 Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">P55073</a>
Other Accession	<a href="#">Q91Z18</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	33947

**Anti-DIO3 Antibody - Additional Information****Gene ID** 1735**Other Names**

ITDI3; TXDI3; Type III iodothyronine deiodinase; 5DIII; DIOIII; Type 3 DI; Type-III 5'-deiodinase

**Target/Specificity**

KLH-conjugated synthetic peptide encompassing a sequence within the center region of human DIO3. The exact sequence is proprietary.

**Dilution**

WB~~WB (1/500 - 1/1000)

**Format**

Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.

**Storage**

Store at -20 °C. Stable for 12 months from date of receipt

**Anti-DIO3 Antibody - Protein Information****Name** DIO3**Synonyms** ITDI3, TXDI3**Function**

Plays a crucial role in the metabolism of thyroid hormones (TH) and has specific roles in TH activation and inactivation by deiodination (PubMed:<a href="http://www.uniprot.org/citations/7593630" target="\_blank">7593630</a>, PubMed:<a href="http://www.uniprot.org/citations/12586771" target="\_blank">12586771</a>, PubMed:<a href="http://www.uniprot.org/citations/12746313" target="\_blank">12746313</a>, PubMed:<a href="http://www.uniprot.org/citations/18821722" target="\_blank">18821722</a>). Catalyzes

the deiodination of L-thyroxine (T4) to 3,3',5'-triiodothyronine (rT3), 3,5,3'-triiodothyronine (T3) to 3,3'- diiodothyronine (3,3'-T2), 3,5-diiodothyronine (3,5-T2) to 3- monoiodothyronine (3-T1), rT3 to 3',5'-diiodothyronine (3',5'-T2) and 3,3'-T2 to 3'-monoiodothyronine (3'-T1) via inner-ring deiodination (IRD) (PubMed:<a href="http://www.uniprot.org/citations/7593630" target="\_blank">7593630</a>, PubMed:<a href="http://www.uniprot.org/citations/12586771" target="\_blank">12586771</a>, PubMed:<a href="http://www.uniprot.org/citations/12746313" target="\_blank">12746313</a>, PubMed:<a href="http://www.uniprot.org/citations/18821722" target="\_blank">18821722</a>, PubMed:<a href="http://www.uniprot.org/citations/18339710" target="\_blank">18339710</a>). Catalyzes the deiodination of 3-T1 to L-thyronine (T0) via outer-ring deiodination (ORD) (PubMed:<a href="http://www.uniprot.org/citations/18821722" target="\_blank">18821722</a>). Catalyzes the tyrosyl ring deiodinations of 3,3',5,5'-tetraiodothyronamine, 3,3',5'-triiodothyronamine, 3,5,3'- triiodothyronamine, 3,5-diiodothyronamine, 3,3'-diiodothyronamine and 3-iodothyronamine (PubMed:<a href="http://www.uniprot.org/citations/18339710" target="\_blank">18339710</a>).

### Cellular Location

Cell membrane; Single-pass type II membrane protein. Endosome membrane; Single-pass type II membrane protein

### Tissue Location

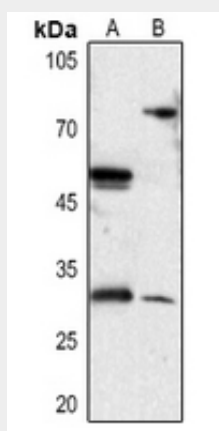
Expressed in placenta and several fetal tissues.

## Anti-DIO3 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## Anti-DIO3 Antibody - Images



Western blot analysis of DIO3 expression in mouse liver (A), rat kidney (B) whole cell lysates.

## Anti-DIO3 Antibody - Background

KLH-conjugated synthetic peptide encompassing a sequence within the center region of human DIO3. The exact sequence is proprietary.