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Anti-DIO3 Antibody

Catalog # AP59538

Product Information

Application	WB
Primary Accession	P55073
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	33947

Additional Information

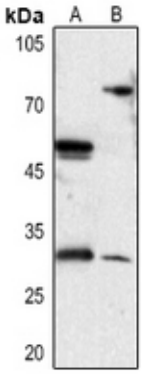
Gene ID	1735
Other Names	ITDI3; TXDI3; Type III iodothyronine deiodinase; 5DIII; DIOIII; Type 3 DI; Type-III 5'-deiodinase
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human DIO3. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000)
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

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:7593630, PubMed:12586771, PubMed:12746313, PubMed:18821722). 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:7593630, PubMed:12586771, PubMed:12746313, PubMed:18821722, PubMed:18339710). Catalyzes the deiodination of 3-T1 to L-thyronine (T0) via outer-ring deiodination (ORD) (PubMed:18821722). 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:18339710).
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.

Images



Western blot analysis of DIO3 expression in mouse liver (A), rat kidney (B) whole cell lysates. (Predicted band size: 33 kD; Observed band size: 31 kD)

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.