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Polyclonal Antibody to Deiodinase, Iodothyronine, Type II (DIO2)

Deiodinase, Iodothyronine, Type II
Catalog # AP74704

Product Information

Application	WB
Primary Accession	Q9Z1Y9
Reactivity	Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	29929

Additional Information

Gene ID	13371
Other Names	5DII; D2; SelY; TXDI2; Thyroxine Deiodinase, Type II; Type-II 5'-deiodinase
Target/Specificity	Mus musculus (Mouse)
Dilution	WB~~Western blotting: 0.2-2 □g/mL;1:250-2500 Immunohistochemistry: 5-20 □g/mL;1:25-100 Immunocytochemistry: 5-20 □g/mL;1:25-100 Optimal working dilutions must be determined by end user.
Format	PBS, pH7.4, containing 0.02% NaN3, 50% glycerol.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

Name	Dio2
Function	Plays a crucial role in the metabolism of thyroid hormones (TH) and has specific roles in TH activation and inactivation by deiodination (PubMed:10715551). Catalyzes the deiodination of L- thyroxine (T4) to 3,5,3'-triiodothyronine (T3) and 3,3',5'- triiodothyronine (rT3) to 3,3'-diiodothyronine (3,3'-T2) via outer-ring deiodination (ORD) (PubMed:10715551). Catalyzes the deiodination of 3',5'-diiodothyronine (3',5'-T2) to 3'-monoiodothyronine (3'-T1) via ORD (By similarity). Catalyzes the phenolic ring deiodinations of 3,3',5'-triiodothyronamine and 3',5'-diiodothyronamine (By similarity).
Cellular Location	Endoplasmic reticulum membrane {ECO:0000250|UniProtKB:Q92813};

	Single-pass type III membrane protein {ECO:0000250|UniProtKB:Q92813}
Tissue Location	Expressed in mammary gland and in brain.

Images