

## DIO1 Polyclonal Antibody

Catalog number: 11790-1-AP

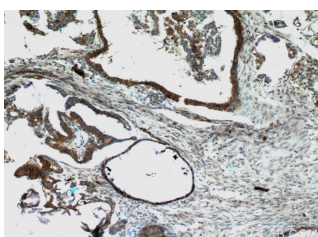
Size: 67 µg/150 µl

Source: Rabbit

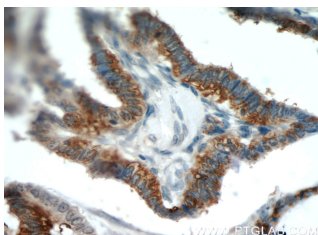
Isotype: IgG

Synonyms:

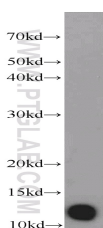
DIO1; 5DI, DIO1, DIOI, ITDI1, TXDI1, Type 1 DI, Type I 5 deiodinase



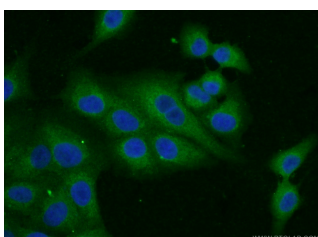
Immunohistochemical of paraffin-embedded human ovary tumor using 11790-1-AP(DIO1 antibody) at dilution of 1:50 (under 10x lens)



Immunohistochemical of paraffin-embedded human ovary tumor using 11790-1-AP(DIO1 antibody) at dilution of 1:50 (under 40x lens)



A549 cells were subjected to SDS PAGE followed by western blot with 11790-1-AP(DIO1 antibody) at dilution of 1:1000



Immunofluorescent analysis of ( 10% Formaldehyde ) fixed

### Background

DIO1(Type I iodothyronine deiodinase) is also named as ITDI1, TXDI1,5DI,DIOI and belongs to the iodothyronine deiodinase family.It is a membrane selenoprotein that catalyzes the deiodination of L-thyroxine to the biologically active thyroid hormone 3,3',5-triiodothyronine.DIO1 is located in liver, kidney, and thyroid,which has both ORD and IRD activities(PMID: 9389495). It has 9 isoforms produced by alternative splicing with the MW of 29 kDa, 21 kDa, 13 kDa, 23 kDa, 19 kDa, 4 kDa, 13 kDa, 9 kDa and 10 kDa.

### Applications

Tested applications:	ELISA, WB, IHC, IP, IF
Cited applications:	IHC, WB
Species specificity:	Human,Mouse,Rat; other species not tested.
Cited species:	Human, mouse, RAT
Calculated DIO1 MW:	249aa,29 kDa
Observed DIO1 MW:	13 kDa
Positive WB detected in	A549 cells, HeLa cells, U-937 cells
Positive IP detected in	A549 cells
Positive IHC detected in	Human ovary tumor tissue, human kidney tissue, human liver tissue
Positive IF detected in	A549 cells
Recommended dilution:	WB: 1:500-1:5000 IP: 1:500-1:5000 IHC: 1:20-1:200 IF: 1:50-1:500

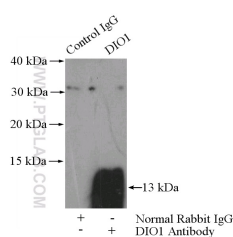
Application key: WB = Western blotting, IHC = Immunohistochemistry, IF = Immunofluorescence, IP = Immunoprecipitation

### Immunogen information

Immunogen:	Ag2410
GenBank accession number:	BC017955
Gene ID (NCBI):	1733
Full name:	Deiodinase, iodothyronine, type I

### Product information

Purification method:	Antigen affinity purification
Storage:	PBS with 0.1% sodium azide and 50% glycerol pH 7.3. Store at -20°C.



IP Result of anti-DIO1 (IP:11790-1-AP, 4ug;

A549 cells using 11790-1-AP ( Detection:11790-1-AP 1:1000)  
DIO1 Antibody) at dilution of with A549 cells lysate 1200ug.  
1:50 and Alexa Fluor 488-  
conjugated AffiniPure Goat  
Anti-Rabbit IgG(H+L)