

For Research Use Only

# DIO1 Polyclonal antibody

Catalog Number: 11790-1-AP

14 Publications



## Basic Information

Catalog Number:

11790-1-AP

Size:

650 ug/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG2410

GenBank Accession Number:

BC017955

GeneID (NCBI):

1733

UNIPROT ID:

P49895

Full Name:

deiodinase, iodothyronine, type I

Calculated MW:

249 aa, 29 kDa

Observed MW:

29 kDa, 13 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:2000

IHC 1:50-1:500

IF/ICC 1:50-1:500

## Applications

Tested Applications:

WB, IHC, IF/ICC, FC (Intra), ELISA

Cited Applications:

WB, IHC, IF

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, rat

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

Positive Controls:

WB : mouse lung tissue, HeLa cells, mouse ovary tissue, rat lung tissue, U-937 cells, A549 cells

IHC : human liver cancer tissue, human kidney tissue, human ovary tumor tissue

IF/ICC : A549 cells,

## Background Information

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 some 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.

## Notable Publications

Author	Pubmed ID	Journal	Application
Paula B M De Andrade	26441673	Front Physiol	WB
B Chellan	33122797	Sci Rep	WB
Xiang Li	35553364	Breast Cancer	WB

## Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

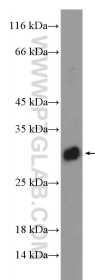
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

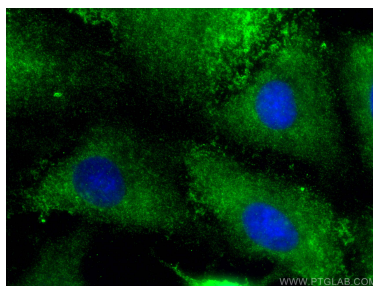
W: [ptgcn.com](http://ptgcn.com)

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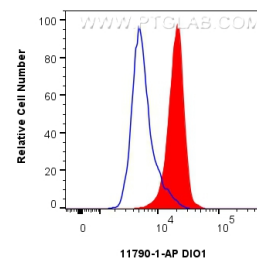
## Selected Validation Data



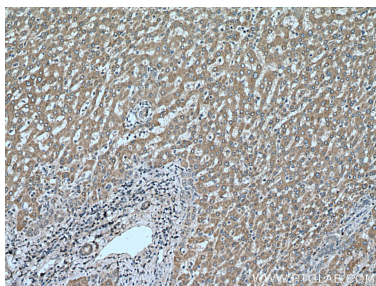
mouse lung tissue were subjected to SDS PAGE followed by western blot with 11790-1-AP (DIO1 Antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



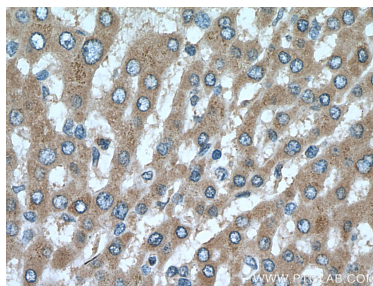
Immunofluorescent analysis of (-20°C Ethanol) fixed A549 cells using DIO1 antibody (11790-1-AP) at dilution of 1:200 and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



1x10<sup>6</sup> HeLa cells were intracellularly stained with 0.25 ug DIO1 Polyclonal antibody (11790-1-AP) and CoraLite@488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.25 ug Rabbit IgG control Rabbit PolyAb (30000-0-AP) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 11790-1-AP (DIO1 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 11790-1-AP (DIO1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).