

For Research Use Only

# DIO2 Monoclonal antibody

Catalog Number: 66813-1-Ig

Featured Product

4 Publications



## Basic Information

Catalog Number:

66813-1-Ig

GenBank Accession Number:

BC074882

Purification Method:

Protein A purification

Size:

150ul, Concentration: 1400 ug/ml by 1734  
Nanodrop and 1000 ug/ml by Bradford  
method using BSA as the standard;

GeneID (NCBI):

1734

CloneNo.:

1F2A1

UNIPROT ID:

Q92813

Recommended Dilutions:

WB 1:500-1:2000

IHC 1:50-1:500

Source:

Mouse

Full Name:

deiodinase, iodothyronine, type II

Isotype:

IgG2a

Calculated MW:

273 aa, 31 kDa

Immunogen Catalog Number:

AG24057

Observed MW:

30-35 kDa

## Applications

Tested Applications:

WB, IHC, ELISA

Positive Controls:

WB : T-47D cells, LNCaP cells, MCF-7 cells

Cited Applications:

WB, IHC, RIP

IHC : human thyroid cancer tissue, mouse skeletal  
muscle tissue

Species Specificity:

Human, Mouse

Cited Species:

human, mouse

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

## Background Information

Type II iodothyronine deiodinase(DIO2), belongs to the iodothyronine deiodinase family, with two isoform of 30 and 34 kDa. DIO2 can activates thyroid hormone by converting the prohormone thyroxine (T4) by outer ring deiodination (ORD) to bioactive 3,3',5-triiodothyronine (T3). DIO2 is thought to be responsible for the 'local' production of T3, and thus important in influencing thyroid hormone action in these tissues.

## Notable Publications

Author	Pubmed ID	Journal	Application
Zhenhua Zhou	35196191	Autophagy	WB
Ling Tian	39104259	Thyroid	WB
Zehao Wang	39098733	Biochem Pharmacol	WB,RIP,IHC

## 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

\*\*\* 20ul sizes contain 0.1% BSA

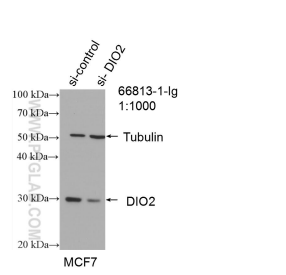
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free  
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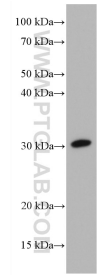
E: proteintech@ptglab.com  
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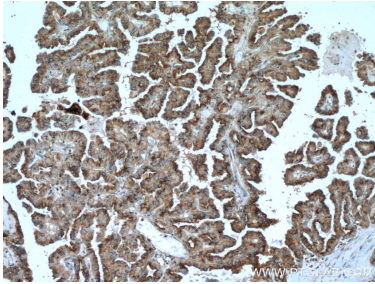
Selected Validation Data



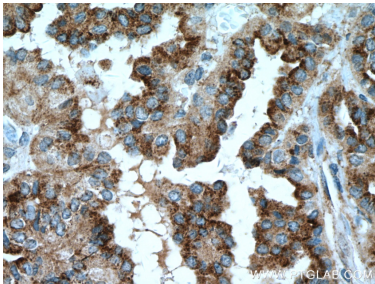
WB result of DIO2 antibody (66813-1-Ig; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-DIO2 transfected MCF-7 cells.



T-47D cells were subjected to SDS PAGE followed by western blot with 66813-1-Ig (DIO2 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human thyroid cancer tissue slide using 66813-1-Ig (DIO2 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 thyroid cancer tissue slide using 66813-1-Ig (DIO2 antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).