For Research Use Only

DIO2 Monoclonal antibody

Catalog Number:66813-1-Ig Featured Product 2 Publications

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Basic Information

Catalog Number:
66813-1-Ig

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

Source:
Mouse

Isotype:
IgG2a

Immunogen Catalog Number:
AG24057

GenBank Accession Number:
BC074882

GeneID (NCBI):
1734

Full Name:
deiodinase, iodothyronine, type II

Calculated MW:
273 aa, 31 kDa

Observed MW:
30-35 kDa

Purification Method:
Protein A purification

CloneNo.:
1F2A1

Recommended Dilutions:
WB 1:500-1:2000
IHC 1:50-1:500

Applications

Tested Applications:
IHC, WB, ELISA

Cited Applications:
IHC, WB

Species Specificity:
Human, Mouse

Cited Species:
human

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

IHC : human thyroid cancer tissue, mouse skeletal muscle tissue

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
Jingyu Zhao	36852096	Biochem Biophys Rep	IHC

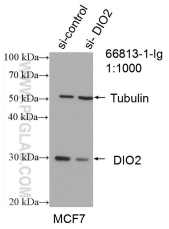
Storage

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

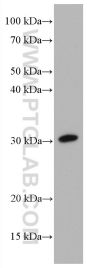
*** 20ul sizes contain 0.1% BSA

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

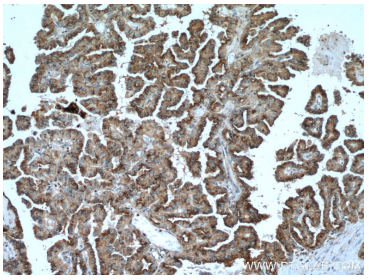
Selected Validation Data



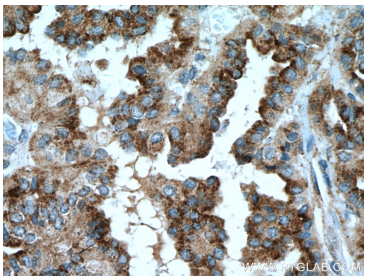
WB result of DIO2 antibody (66813-1-Ig; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-DIO2 transfected MCF-7 cells.



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).