

DIO1 Antibody (N-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP6958a

Specification

DIO1 Antibody (N-term) - Product Information

Application	WB,E
Primary Accession	P49895
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Antigen Region	30-57

DIO1 Antibody (N-term) - Additional Information

Gene ID 1733

Other Names

Type I iodothyronine deiodinase, 5DI, DIOI, Type 1 DI, Type-I 5'-deiodinase, DIO1, ITDI1, TXDI1

Target/Specificity

This DIO1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 30-57 amino acids from the N-terminal region of human DIO1.

Dilution

WB~~1:2000

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

DIO1 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

DIO1 Antibody (N-term) - Protein Information

Name DIO1

Synonyms ITDI1, TXDI1

Function Responsible for the deiodination of T4 (3,5,3',5'- tetraiodothyronine) into T3 (3,5,3'-triiodothyronine) and of T3 into T2 (3,3'-diiodothyronine). Plays a role in providing a source

of plasma T3 by deiodination of T4 in peripheral tissues such as liver and kidney.

Cellular Location

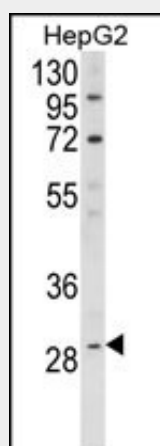
Endoplasmic reticulum membrane; Single-pass membrane protein

DIO1 Antibody (N-term) - Protocols

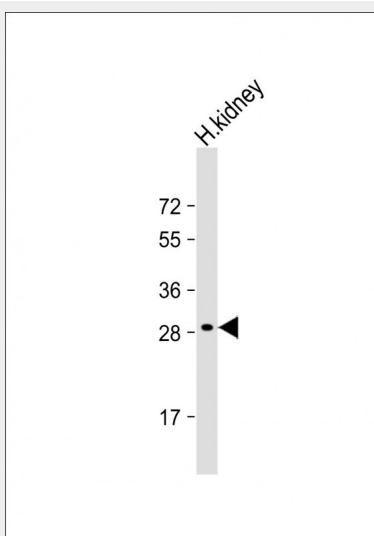
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

DIO1 Antibody (N-term) - Images



Western blot analysis of DIO1 Antibody (N-term) (Cat. #AP6958a) in HepG2 cell line lysates (35ug/lane). DIO1 (arrow) was detected using the purified Pab.



Anti-DIO1 Antibody (N-term) at 1:2000 dilution + human kidney whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 29 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

DIO1 Antibody (N-term) - Background

DIO1 is a thiol-requiring propylthiouracil-sensitive oxidoreductase. It activates thyroid hormone by converting the prohormone thyroxine (T4) by outer ring deiodination (ORD) to bioactive 3,3',5-triiodothyronine (T3). It also degrades both hormones by inner ring deiodination (IRD).

DIO1 Antibody (N-term) - References

Landa,I., et.al., PLoS Genet. 5 (9), E1000637 (2009)