

Datasheet for ABIN5532317  
**anti-DIO3 antibody (C-Term)**[Go to Product page](#)**2** Images

## Overview

Quantity:	400 µL
Target:	DIO3
Binding Specificity:	AA 250-278, C-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This DIO3 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

## Product Details

Immunogen:	This DIO3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 250-278 amino acids from the C-terminal region of human DIO3.
Isotype:	Ig Fraction
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.

## Target Details

Target:	DIO3
Alternative Name:	DIO3 ( <a href="#">DIO3 Products</a> )
Background:	DIO3 belongs to the iodothyronine deiodinase family. It catalyzes the inactivation of thyroid hormone by inner ring deiodination of the prohormone thyroxine (T4) and the bioactive hormone 3,3',5-triiodothyronine (T3) to inactive metabolites, 3,3',5'-triiodothyronine (RT3) and

## Target Details

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3,3'-diiodothyronine (T2), respectively. This enzyme is highly expressed in the pregnant uterus, placenta, fetal and neonatal tissues, suggesting that it plays an essential role in the regulation of thyroid hormone inactivation during embryological development. This protein contains a selenocysteine (Sec) residue, which is essential for efficient enzyme activity. The selenocysteine is encoded by the UGA codon, which normally signals translation termination. The 3' UTR of Sec-containing genes have a common stem-loop structure, the sec insertion sequence (SECIS), which is necessary for the recognition of UGA as a Sec codon rather than as a stop signal.

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Molecular Weight: 34 kDa

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Gene ID: 1735

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UniProt: [P55073](#)

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Pathways: [Hormone Activity](#)

## Application Details

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Application Notes: For WB starting dilution is: 1:1000

For IHC-P starting dilution is: 1:50~100

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Restrictions: For Research Use only

## Handling

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Format: Liquid

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Concentration: 0.5 mg/mL

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Buffer: Supplied in PBS with 0.09 % (W/V) sodium azide.

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Preservative: Sodium azide

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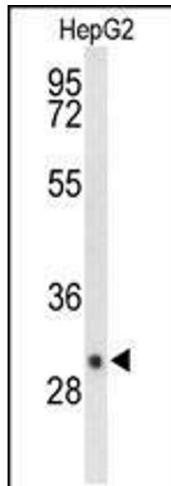
Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

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Storage: 4 °C,-20 °C

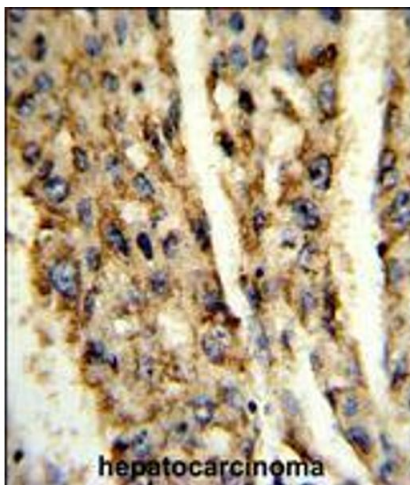
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Storage Comment: Store at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.



### Western Blotting

**Image 1.** Western blot analysis of DIO3 Antibody in HepG2 cell line lysates (35ug/lane)



### Immunohistochemistry

**Image 2.** Formalin-fixed and paraffin-embedded human hepatocarcinoma reacted with DIO3 Antibody, which was peroxidase-conjugated to the secondary antibody, followed by DAB staining.