



[Go to Product page](#)

Datasheet for ABIN951914
anti-DIO3 antibody (C-Term)

2 Images

Overview

Quantity:	0.4 mL
Target:	DIO3
Binding Specificity:	AA 249-278, 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)), Enzyme Immunoassay (EIA)

Product Details

Immunogen:	KLH conjugated synthetic peptide between 249~278 amino acids from the C-terminal region of human DIO3
Isotype:	Ig Fraction
Specificity:	This antibody recognizes Human DIO3 (C-term).
Purification:	Affinity Chromatography on Protein A

Target Details

Target:	DIO3
Alternative Name:	DIO3 (DIO3 Products)

Target Details

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 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. Synonyms: 5DIII, DIOIII, ITDI3, TXDI3, Type 3 DI, Type III iodothyronine deiodinase, Type-III 5'-deiodinase

Molecular Weight: 31451 Da

Gene ID: 1735

NCBI Accession: [NP_001353](#)

Pathways: [Hormone Activity](#)

Application Details

Application Notes: Optimal working dilution should be determined by the investigator.

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 0.25 mg/mL

Buffer: PBS, 0.09 % Sodium Azide

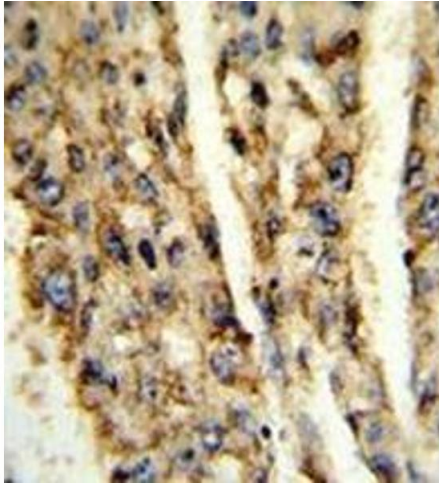
Preservative: Sodium azide

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

Handling Advice: Avoid repeated freezing and thawing.

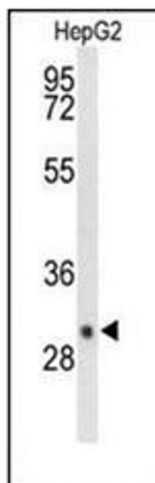
Storage: 4 °C/-20 °C

Storage Comment: Store undiluted at 2-8 °C for one month or (in aliquots) at -20 °C for longer.



Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Formalin-fixed and paraffin-embedded human hepatocarcinoma reacted with DIO3 Antibody (C-term) followed which was peroxidase-conjugated to the secondary antibody, followed by DAB staining.



Western Blotting

Image 2. Western blot analysis of DIO3 Antibody (C-term) in HepG2 cell line lysates (35ug/lane). DIO3 (arrow) was detected using the purified Pab.