

Datasheet for ABIN6139627  
**anti-DIO3 antibody (AA 70-170)**



[Go to Product page](#)

1 Image

Overview

Quantity:	100 µL
Target:	DIO3
Binding Specificity:	AA 70-170
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This DIO3 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 70-170 of human DIO3 (NP_001353.4).
Sequence:	HFLGRRRRGQ PEPEVELNSE GEEVPPDDPP ICVSDDNRLC TLASLKAVWH GQKLDFFKQA HEGGPAPNSE VVLPDGFQSQ HILDYAQGNR PLVLNFGSCT U
Isotype:	IgG
Cross-Reactivity:	Human
Characteristics:	Polyclonal Antibodies
Purification:	Affinity purification

## Target Details

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Target: DIO3

Alternative Name: DIO3 ([DIO3 Products](#))

Background: The protein encoded by this intronless gene 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 pregnant uterus, placenta, fetal and neonatal tissues, and thought to prevent premature exposure of developing fetal tissues to adult levels of thyroid hormones. It regulates circulating fetal thyroid hormone concentrations, and thus plays a critical role in mammalian development. Knockout mice lacking this gene exhibit abnormalities related to development and reproduction, and increased activity of this enzyme in infants with hemangiomas causes severe hypothyroidism. This protein is a selenoprotein, containing the rare selenocysteine (Sec) amino acid at its active site. Sec is encoded by the UGA codon, which normally signals translation termination. The 3' UTRs of selenoprotein mRNAs contain a conserved stem-loop structure, designated the Sec insertion sequence (SECIS) element, that is necessary for the recognition of UGA as a Sec codon rather than as a stop signal. [DIO3](#), [5DIII](#), [D3](#), [DIOIII](#), [TXDI3](#), [Cancer](#), [Signal Transduction](#), [Cell Biology & Developmental Biology](#), [Growth factor](#), [Endocrine & Metabolism](#), [Neuroscience](#), [DIO3](#)

Molecular Weight: 33 kDa

Gene ID: 1735

UniProt: [P55073](#)

Pathways: [Hormone Activity](#)

## Application Details

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Application Notes: WB, 1:500 - 1:2000

Restrictions: For Research Use only

## Handling

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Format: Liquid

Buffer: PBS with 0.02 % sodium azide, 50 % glycerol, pH 7.3.

Preservative: Sodium azide

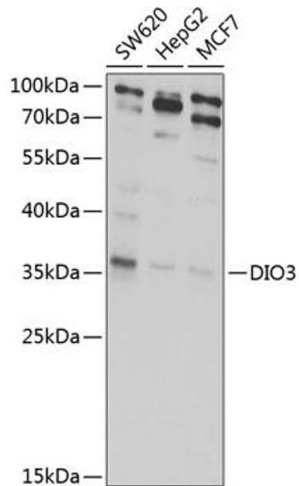
## Handling

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

Storage: -20 °C

Storage Comment: Store at -20°C. Avoid freeze / thaw cycles.

## Images



### Western Blotting

**Image 1.** Western blot analysis of extracts of various cell lines, using DIO3 antibody (ABIN6128882, ABIN6139627, ABIN6139628 and ABIN6222629) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3 % nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 90s.