


### Anti-DIO2 antibody ab77779

★☆☆☆☆ [1 Abreviews](#) [7 References](#) [3 Images](#)

#### Overview

<b>Product name</b>	Anti-DIO2 antibody
<b>Description</b>	Rabbit polyclonal to DIO2
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB, ICC/IF
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Rat, Human <b>Predicted to work with:</b> Goat, Cow, Pig, Xenopus laevis 
<b>Immunogen</b>	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
<b>Positive control</b>	This antibody gave a positive signal in the following human tissue lysates: Human Heart and Placenta, Mouse retina, P0 Whole Brain and Rat Whole Brain. This antibody gave a positive result when used in the following methanol fixed cell lines: SKNSH
<b>General notes</b>	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&amp;As</p>

#### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	<p>pH: 7.40</p> <p>Preservative: 0.02% Sodium azide</p> <p>Constituent: PBS</p> <p>Batches of this product that have a concentration &lt; 1mg/ml may have BSA added as a stabilising agent. If you would like information about the formulation of a specific lot, please contact our scientific support team who will be happy to help.</p>
<b>Purity</b>	Immunogen affinity purified

Clonality	Polyclonal
Isotype	IgG

## Applications

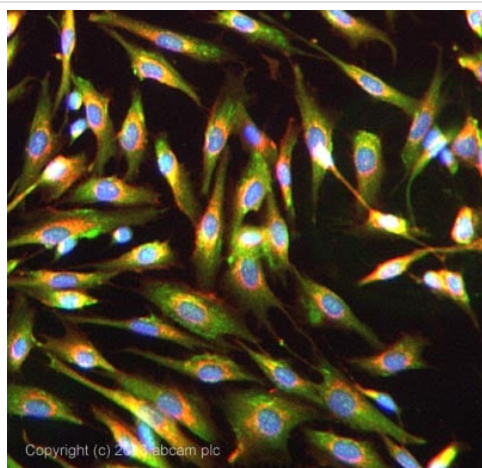
**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab77779 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB	★☆☆☆☆ (1)	Use a concentration of 1 µg/ml. Detects a band of approximately 31 kDa (predicted molecular weight: 31 kDa).
ICC/IF		Use a concentration of 5 µg/ml.

## Target

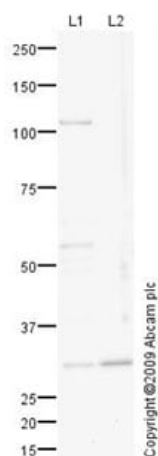
Function	Responsible for the deiodination of T4 (3,5,3',5'-tetraiodothyronine) into T3 (3,5,3'-triiodothyronine). Essential for providing the brain with appropriate levels of T3 during the critical period of development.
Tissue specificity	Heart, skeletal muscle, placenta, fetal brain and several regions of the adult brain.
Sequence similarities	Belongs to the iodothyronine deiodinase family.
Post-translational modifications	Ubiquitinated by MARCH6, leading to its degradation by the proteasome. Deubiquitinated by USP20 and USP33.
Cellular localization	Membrane.

## Images



ICC/IF image of ab77779 stained SKNSH cells. The cells were 100% methanol fixed (5 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody ab77779 at 5µg/ml overnight at +4°C. The secondary antibody (green) was DyLight® 488 goat anti- rabbit (**ab96899**) IgG (H+L) used at a 1/250 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM.

Immunocytochemistry/ Immunofluorescence - Anti-DIO2 antibody (ab77779)



Western blot - Anti-DIO2 antibody (ab77779)

**All lanes :** Anti-DIO2 antibody (ab77779) at 1 µg/ml

**Lane 1 :** Human heart tissue lysate - total protein ([ab29431](#))

**Lane 2 :** Human placenta tissue lysate - total protein ([ab29745](#))

Lysates/proteins at 10 µg per lane.

### Secondary

**All lanes :** Goat polyclonal to Rabbit IgG - H&L - Pre-Adsorbed (HRP) at 1/3000 dilution

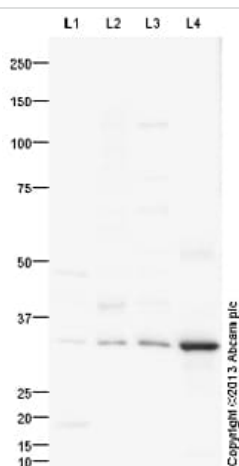
Developed using the ECL technique.

Performed under reducing conditions.

**Predicted band size:** 31 kDa

**Observed band size:** 31 kDa

**Additional bands at:** 105 kDa, 55 kDa. We are unsure as to the identity of these extra bands.



Western blot - Anti-DIO2 antibody (ab77779)

**All lanes :** Anti-DIO2 antibody (ab77779) at 1 µg/ml

**Lane 1 :** Mouse Retina Tissue Lysate

**Lane 2 :** Mouse brain tissue lysate - total protein (0 days) ([ab7188](#))

**Lane 3 :** Brain (Rat) Tissue Lysate

**Lane 4 :** Human heart tissue lysate - total protein ([ab29431](#))

Lysates/proteins at 10 µg per lane.

### Secondary

**All lanes :** Goat polyclonal Secondary Antibody to Rabbit IgG - H&L (HRP) at 1/10000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

**Predicted band size:** 31 kDa

**Observed band size:** 35 kDa

**Additional bands at:** 40 kDa, 55 kDa. We are unsure as to the identity of these extra bands.

**Exposure time:** 3 minutes

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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