




## Product datasheet

### Anti-DIO2 antibody ab77481

★★★★★ [2 Abreviews](#) [8 References](#) [3 Images](#)

#### Overview

<b>Product name</b>	Anti-DIO2 antibody
<b>Description</b>	Goat polyclonal to DIO2
<b>Host species</b>	Goat
<b>Tested applications</b>	<b>Suitable for:</b> Flow Cyt (Intra), ICC, IHC-Fr
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Human <b>Predicted to work with:</b> Rat, Rabbit, Goat, Chicken, Cow, Pig 
<b>Immunogen</b>	Synthetic peptide: EVKKHQNQEDRC (Human) from the internal region of the protein sequence according to NP_000784.2; NP_054644.1; NP_001007024.1. <div>  <a href="#">Run BLAST with</a>  <a href="#">Run BLAST with</a> </div>
<b>Positive control</b>	IHC-Fr: Mouse brain tissue ICC: HeLa cells Flow Cyt (Intra): MCF2 cells
<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. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
<b>Storage buffer</b>	pH: 7.30 Preservative: 0.02% Sodium azide Constituents: 0.5% BSA, Tris buffered saline
<b>Purity</b>	Immunogen affinity purified
<b>Purification notes</b>	Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.

Clonality	Polyclonal
Isotype	IgG

## Applications

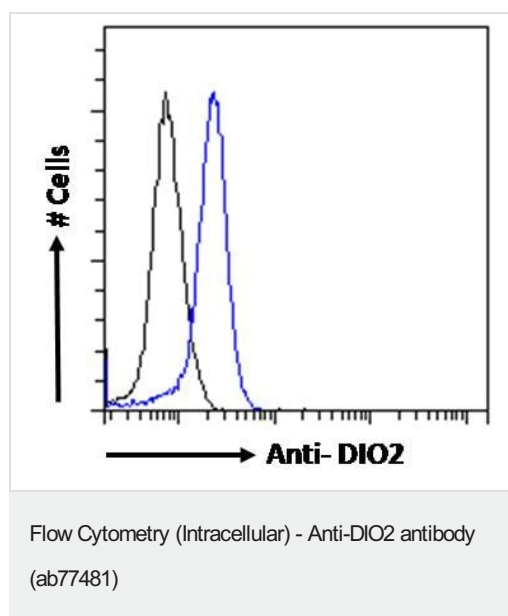
**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab77481 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Flow Cyt (Intra)		Use a concentration of 10 µg/ml.
ICC		Use a concentration of 10 µg/ml.
IHC-Fr	★★★★★ (1)	Use a concentration of 2 - 3 µg/ml. Tissue sections were PFA fixed.

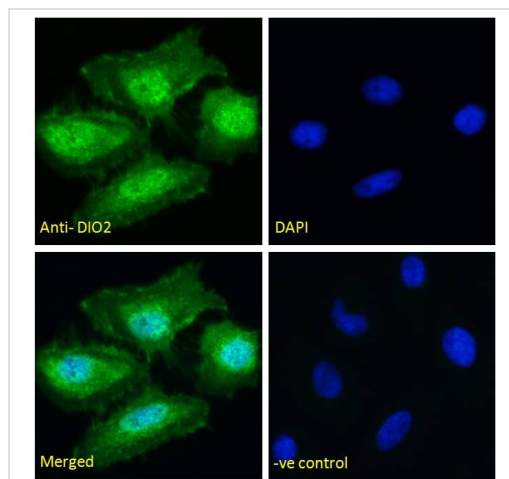
## Target

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



Flow cytometric analysis of paraformaldehyde fixed MCF7 cells (blue line), permeabilized with 0.5% Triton. Primary incubation 1hr at 10 µg/mL followed by Alexa Fluor 488 secondary antibody at 1 µg/mL. IgG control: Unimmunized goat IgG (black line) followed by Alexa Fluor 488 secondary antibody.



Immunocytochemistry - Anti-DIO2 antibody  
(ab77481)

Immunocytochemistry analysis of HeLa cells labelling DIO2 with ab77481 at 10 µg/mL. Cells were fixed with 4% paraformaldehyde and permeabilized with 0.15% Triton X-100. Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) ([ab150077](#)) at 2 µg/mL was used as the secondary antibody (green) showing nuclear and cytoplasmic staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml).



Immunohistochemistry (Frozen sections) - Anti-DIO2  
antibody (ab77481)

ab77481 staining DIO2 in mouse Brain (Hippocampus) tissue section by Immunohistochemistry (Frozen sections). Tissue underwent antigen retrieval in microwave with citrate buffer (pH 4.5). The HRP-staining procedure was used for detection.

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

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