

## Product datasheet

### Anti-Oct-2 antibody [EPR12482] ab179808

Recombinant RabMAb

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#### Overview

<b>Product name</b>	Anti-Oct-2 antibody [EPR12482]
<b>Description</b>	Rabbit monoclonal [EPR12482] to Oct-2
<b>Host species</b>	Rabbit
<b>Specificity</b>	The Oct-2 targeted by ab179808 is POU domain, class 2, transcription factor 2 (SwissProt ID: P09086).
<b>Tested applications</b>	<b>Suitable for:</b> Flow Cyt (Intra), WB, ICC/IF, IP <b>Unsuitable for:</b> ChIP
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Rat, Human
<b>Immunogen</b>	Recombinant fragment within Human Oct-2. The exact sequence is proprietary. Database link: <a href="#">P09086</a>
<b>Positive control</b>	WB: Raji whole cell lysate. Rat and mouse brain tissue lysates; IP: Raji whole cell lysate; ICC/IF: Ramos; Flow-cyt: Raji cells.
<b>General notes</b>	This product is a recombinant monoclonal antibody, which offers several advantages including: <ul style="list-style-type: none"> <li>- High batch-to-batch consistency and reproducibility</li> <li>- Improved sensitivity and specificity</li> <li>- Long-term security of supply</li> <li>- Animal-free production</li> </ul> For more information <a href="#">see here</a> . Our RabMAb <sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a> .

#### 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 long term. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal

Clone number	EPR12482
Isotype	IgG

## Applications

**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab179808 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

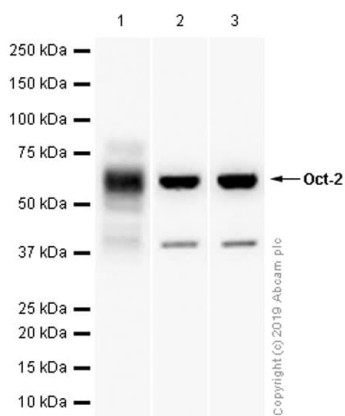
Application	Abreviews	Notes
Flow Cyt (Intra)		1/50. <b>ab172730</b> - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody. For unpurified use at 1/100 - 1/500.
WB		1/5000. Predicted molecular weight: 51 kDa. <b>For unpurified use at 1/1000 - 1/5000.</b>
ICC/IF		1/200. <b>For unpurified use at 1/100 - 1/250.</b>
IP		1/30. <b>For unpurified use at 1/10 - 1/100.</b>

**Application notes** Is unsuitable for ChIP.

## Target

<b>Function</b>	Transcription factor that specifically binds to the octamer motif (5'-ATTTGCAT-3'). Regulates transcription in a number of tissues in addition to activating immunoglobulin gene expression. Modulates transcription transactivation by NR3C1, AR and PGR. Isoform 5 activates the U2 small nuclear RNA (snRNA) promoter.
<b>Tissue specificity</b>	Isoform 3 is B-cell specific. Isoform 5 is expressed in B-cells and the immunoglobulin-expressing T-cell line MOLT-4, but not in the T-cell line BW5147.
<b>Sequence similarities</b>	Belongs to the POU transcription factor family. Class-2 subfamily. Contains 1 homeobox DNA-binding domain. Contains 1 POU-specific domain.
<b>Cellular localization</b>	Cytoplasm. Nucleus.

## Images



Western blot - Anti-Oct-2 antibody [EPR12482] (ab179808)

**All lanes** : Anti-Oct-2 antibody [EPR12482] (ab179808) at 1/5000 dilution (Purified)

**Lane 1** : Raji (Human Burkitt's lymphoma B lymphocyte) whole cell lysate

**Lane 2** : Mouse brain lysate

**Lane 3** : Rat brain lysate

Lysates/proteins at 20 µg per lane.

### Secondary

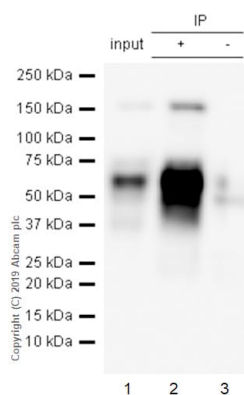
**All lanes** : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution

**Predicted band size:** 51 kDa

**Observed band size:** 65 kDa

Blocking/Diluting buffer: 5% NFDM/TBST

The observed bands are consistent with what are described in PMID: 26993806.



Immunoprecipitation - Anti-Oct-2 antibody [EPR12482] (ab179808)

Purified ab179808 at 1/30 dilution (2ug) immunoprecipitating Oct-2 in Raji whole cell lysate.

Lane 1 (input): Raji (Human Burkitt's lymphoma B lymphocyte) whole cell lysate (10µg)

Lane 2 (+): ab179808 + Raji whole cell lysate.

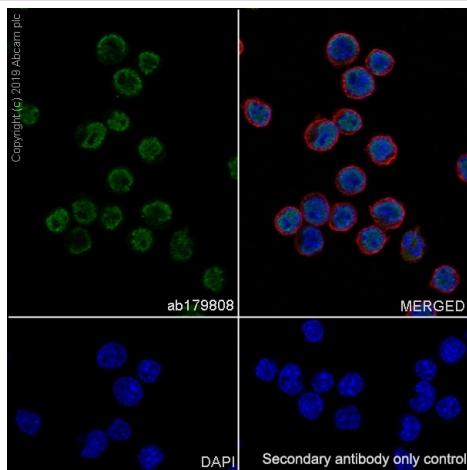
Lane 3 (-): Rabbit monoclonal IgG ([ab172730](#)) instead of ab179808 in Raji whole cell lysate.

VeriBlot for IP Detection Reagent (HRP) ([ab131366](#)) (1/1000) was used for Western blotting.

Blocking Buffer and concentration: 5% NFDM/TBST.

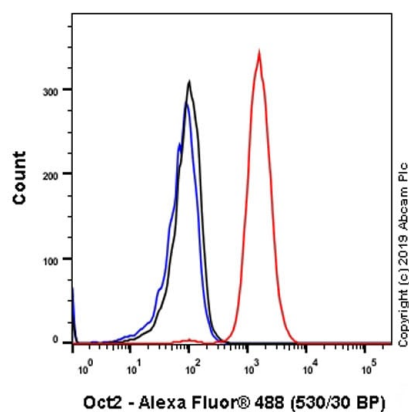
Diluting buffer and concentration: 5% NFDM/TBST.

Observed band size: 58 kDa



Immunocytochemistry/ Immunofluorescence - Anti-Oct-2 antibody [EPR12482] (ab179808)

Immunocytochemistry/ Immunofluorescence analysis of Ramos (Human Burkitt's lymphoma B lymphocyte) cells labeling Oct-2 with purified ab179808 at 1/200 (2.7 µg/mL). Cells were fixed in 4% Paraformaldehyde and permeabilized with 0.1% tritonX-100. Cells were counterstained with **ab195889** Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) 1/200 (2.5 µg/mL). Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) was used as the secondary antibody at 1/1000 (2 µg/mL) dilution. DAPI (blue) was used as nuclear counterstain. PBS instead of the primary antibody was used as the secondary antibody only control.



Flow Cytometry (Intracellular) - Anti-Oct-2 antibody [EPR12482] (ab179808)

Intracellular Flow Cytometry analysis of Raji (Human Burkitt's lymphoma B lymphocyte) cells labeling Oct-2 with purified ab179808 at 1/50 dilution (10µg/mL) (Red). Cells were fixed with 4% Paraformaldehyde and permeabilised with 90% Methanol. A Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) secondary antibody was used at 1/2000. Isotype control - Rabbit monoclonal IgG (Black). Unlabeled control - Cell without incubation with primary antibody and secondary antibody (Blue).

### Why choose a recombinant antibody?



**Research with confidence**  
Consistent and reproducible results



**Long-term and scalable supply**  
Recombinant technology



**Success from the first experiment**  
Confirmed specificity



**Ethical standards compliant**  
Animal-free production

Anti-Oct-2 antibody [EPR12482] (ab179808)

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

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