

## Product datasheet

# Anti-Oct-2 antibody [EPR12482] - BSA and Azide free ab250114

Recombinant RabMAb

[5 Images](#)

### Overview

<b>Product name</b>	Anti-Oct-2 antibody [EPR12482] - BSA and Azide free
<b>Description</b>	Rabbit monoclonal [EPR12482] to Oct-2 - BSA and Azide free
<b>Host species</b>	Rabbit
<b>Specificity</b>	The Oct-2 targeted by <a href="#">ab179808</a> is POU domain, class 2, transcription factor 2 (SwissProt ID: P09086).
<b>Tested applications</b>	<b>Suitable for:</b> Flow Cyt (Intra), WB, IP, ICC/IF
<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>	<p>ab250114 is the carrier-free version of <a href="#">ab179808</a>.</p> <p>Our <b>carrier-free</b> antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency.</p> <p>This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.</p> <p>Use our <b>conjugation kits</b> for antibody conjugates that are ready-to-use in as little as 20 minutes with &lt;1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.</p> <p>This product is compatible with the Maxpar<sup>®</sup> Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar<sup>®</sup> is a trademark of Fluidigm Canada Inc.</p> <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <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 [see here](#).

Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to [RabMAb<sup>®</sup> patents](#).

## Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C. Do Not Freeze.
<b>Storage buffer</b>	pH: 7.2 Constituent: PBS
<b>Carrier free</b>	Yes
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPR12482
<b>Isotype</b>	IgG

## Applications

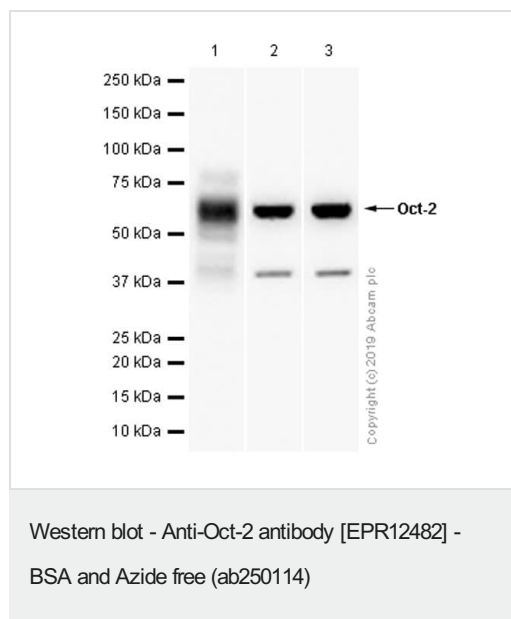
**The Abpromise guarantee** Our [Abpromise guarantee](#) covers the use of ab250114 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Flow Cyt (Intra)		Use at an assay dependent concentration.
WB		Use at an assay dependent concentration. Predicted molecular weight: 51 kDa.
IP		Use at an assay dependent concentration.
ICC/IF		Use at an assay dependent concentration.

## 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



**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  $\mu$ g per lane.

### Secondary

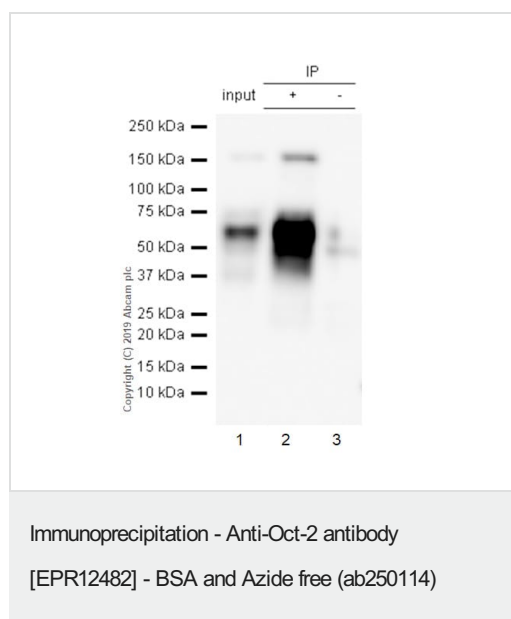
**All lanes** : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution

**Predicted band size:** 51 kDa

**Observed band size:** 65 kDa

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

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab179808**).



Purified **ab179808** at 1/30 dilution (2 $\mu$ g) immunoprecipitating Oct-2 in Raji whole cell lysate.

Lane 1 (input): Raji (Human Burkitt's lymphoma B lymphocyte) whole cell lysate (10 $\mu$ g)

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

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

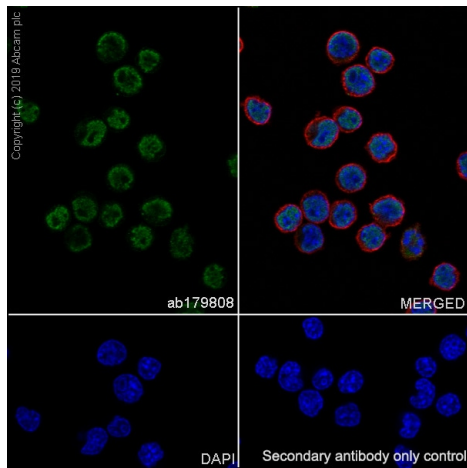
VeriBlot for IP Detection Reagent (HRP) (**ab131366**) (1/1000) was used for Western blotting.

Blocking Buffer and concentration: 5% NFDm/TBST.

Diluting buffer and concentration: 5% NFDm/TBST.

Observed band size: 58 kDa

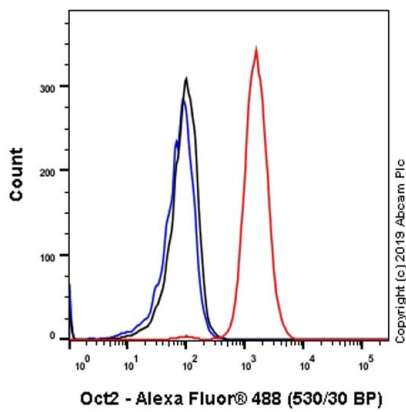
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab179808**).



Immunocytochemistry/ Immunofluorescence - Anti-Oct-2 antibody [EPR12482] - BSA and Azide free (ab250114)

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.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab179808**).



Flow Cytometry (Intracellular) - Anti-Oct-2 antibody [EPR12482] - BSA and Azide free (ab250114)

Intracellular Flow Cytometry analysis of Raji (Human Burkitt's lymphoma B lymphocyte) cells labeling Oct-2 with Purified **ab179808** at 1/50 dilution (10 µg/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). This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab179808**).

### 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] - BSA and Azide free (ab250114)

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

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