

## Product datasheet

# Anti-Oct-1 antibody ab66132

★★★★☆ 1 Abreviews 1 References 4 Images

### Overview

<b>Product name</b>	Anti-Oct-1 antibody
<b>Description</b>	Rabbit polyclonal to Oct-1
<b>Host species</b>	Rabbit
<b>Specificity</b>	This antibody does not cross react with OCT4 or OCT-2.
<b>Tested applications</b>	<b>Suitable for:</b> IHC-P, Dot blot, WB, IP, ELISA
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Rat, Human
<b>Immunogen</b>	Synthetic peptide corresponding to Human Oct-1 (C terminal). Database link: <a href="#">P14859</a>
<b>Positive control</b>	Jurkat cell lysate. Mouse kidney lysate.

### 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. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	Preservative: None Constituents: PBS, pH 7.2 with antibody stabiliser.
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

### Applications

Our [Abpromise guarantee](#) covers the use of **ab66132** 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
IHC-P		Use at an assay dependent concentration.
Dot blot		1/1000.

Application	Abreviews	Notes
WB	★★★★☆	Use a concentration of 0.1 - 1 µg/ml. Detects a band of approximately 77 kDa (predicted molecular weight: 77 kDa).
IP		Use a concentration of 2 - 5 µg/ml.
ELISA		Use a concentration of 0.01 - 0.1 µg/ml.

## Target

### Function

Transcription factor that binds to the octamer motif (5'-ATTTGCAT-3') and activates the promoters of the genes for some small nuclear RNAs (snRNA) and of genes such as those for histone H2B and immunoglobulins. Modulates transcription transactivation by NR3C1, AR and PGR (By similarity). In case of human herpes simplex virus (HSV) infection, POU2F1 forms a multiprotein-DNA complex with the viral transactivator protein VP16 and HCFC1 thereby enabling the transcription of the viral immediate early genes.

### Tissue specificity

Ubiquitous. Isoform 2 is lymphocyte-specific.

### Sequence similarities

Belongs to the POU transcription factor family. Class-2 subfamily.  
Contains 1 homeobox DNA-binding domain.  
Contains 1 POU-specific domain.

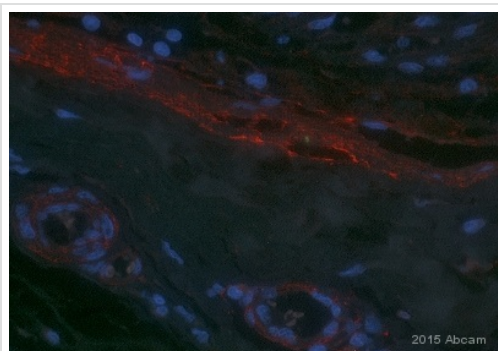
### Post-translational modifications

Phosphorylated by PRKDC.

### Cellular localization

Nucleus.

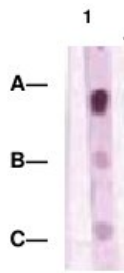
## Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Oct-1 antibody (ab66132)

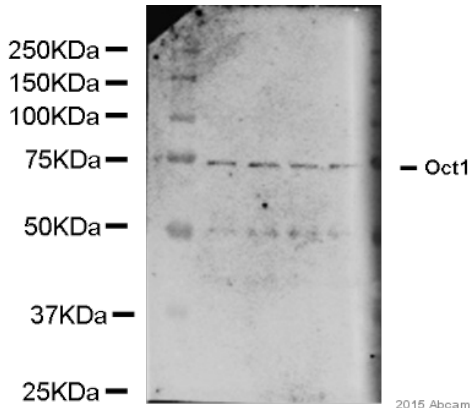
Image is courtesy of an anonymous AbReview.

Immunohistochemical analysis of formaldehyde-fixed paraffin-embedded murine neural tissue sections, labelling Oct-1 with ab66132 at a dilution of 1/250 incubated for 90 minutes at 25°C in PBS plus 1x Casein. Heat mediated antigen retrieval was with 10mM citrate at pH 6.0. Blocking was with 10% serum incubated for 30 minutes at 25°C. Secondary used was a Goat anti-Rabbit polyclonal biotin conjugate at 1/200.



Dot Blot - Anti-Oct-1 antibody (ab66132)

1 µg Oct-1 peptide (A) on a nitrocellulose membrane followed by ab66132 at 1:1000 dilution. The labels B and C refer to 1 µg Oct-2 peptide and Oct4 peptide respectively.



Western blot - Anti-Oct-1 antibody (ab66132)

Image is courtesy of an anonymous AbReview.

**All lanes :** Anti-Oct-1 antibody (ab66132) at 1/1000 dilution

**All lanes :** Murine cardiomyocyte whole cell lysates

Lysates/proteins at 25 µg per lane.

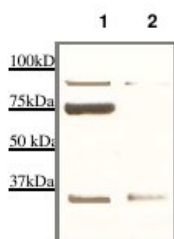
**Secondary**

**All lanes :** Goat anti-Rabbit polyclonal HRP conjugate at 1/5000 dilution

**Predicted band size:** 77 kDa

**Additional bands at:** 50 kDa (possible non-specific binding)

From left to right: Molecular weight marker ladder, lane 1, 2, 3, 4. Blocking was done with 5% milk incubated for 1 hour at room temperature.



Western blot - Anti-Oct-1 antibody (ab66132)

**All lanes :** Anti-Oct-1 antibody (ab66132) at 1/500 dilution

**Lane 1 :** mouse kidney tissue lysate

**Lane 2 :** mouse kidney tissue lysate with immunising peptide

Lysates/proteins at 10 µg per lane.

**Predicted band size:** 77 kDa

**Observed band size:** 77 kDa

**Additional bands at:** 34 kDa, 90 kDa. We are unsure as to the identity of these extra bands.

**Please note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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