

Product datasheet

Anti-Oct-1 antibody [POU5I097] ab51363

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

Overview

Product name	Anti-Oct-1 antibody [POU5I097]
Description	Mouse monoclonal [POU5I097] to Oct-1
Host species	Mouse
Tested applications	Suitable for: Flow Cyt, WB, ICC/IF
Species reactivity	Reacts with: Human
Immunogen	Recombinant fragment corresponding to Human Oct-1. Database link: P14859
Positive control	HeLa cells, HEK293 whole cell lysate
General notes	<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&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.40 Preservative: 0.05% Sodium azide Constituents: 1% BSA, PBS
Purity	Protein G purified
Purification notes	Filtered through a 0.22 µm membrane.
Clonality	Monoclonal
Clone number	POU5I097
Isotype	IgG1

Applications

The Abpromise guarantee

Our [Abpromise guarantee](#) covers the use of ab51363 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		Use 1 µg for 10 ⁶ cells. ab170190 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.
WB		1/50. Detects a band of approximately 89 kDa (predicted molecular weight: 89 kDa).
ICC/IF	★★★★★ (1)	1/10.

Target

Function

Transcription factor that binds to the octamer motif (5'-ATTGTCAT-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.

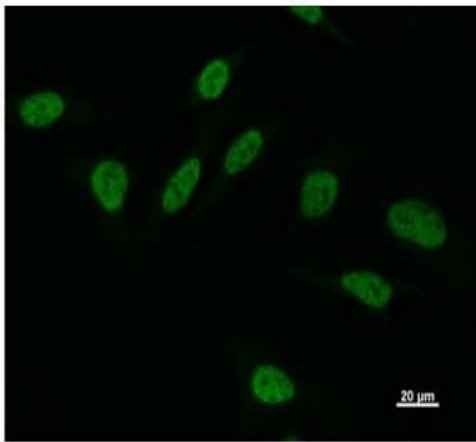
Post-translational modifications

Phosphorylated by PRKDC.

Cellular localization

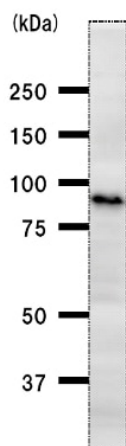
Nucleus.

Images



Immunocytochemistry/ Immunofluorescence - Anti-Oct-1 antibody [POU5I097] (ab51363)

Ab51363 at 1:10 dilution staining HeLa cells; visualised with AlexaFluor®488 Goat Anti-mouse IgG at 1:200 dilution.



Western blot - Anti-Oct-1 antibody [POU5I097] (ab51363)

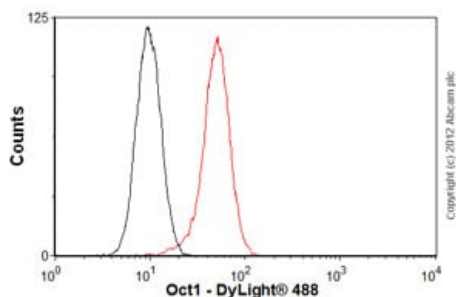
Anti-Oct-1 antibody [POU5I097] (ab51363) at 1/50 dilution + HEK293 whole cell lysate at 50 μg

Secondary

Anti mouse IgG antibody at 1/2500 dilution

Predicted band size: 89 kDa

Observed band size: 89 kDa



Flow Cytometry - Anti-Oct-1 antibody [POU5I097] (ab51363)

Overlay histogram showing Jurkat cells stained with ab51363 (red line). The cells were fixed with 4% paraformaldehyde (10 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody (ab51363, 1 μg/1x10⁶ cells) for 30 min at 22°C. The secondary antibody used was DyLight® 488 goat anti-mouse IgG (H+L) ([ab96879](#)) at 1:500 dilution for 30 min at 22°C. Isotype control antibody (black line) was mouse IgG1 [ICIGG1] ([ab91353](#), 2 μg/1x10⁶ cells) used under the same conditions. Acquisition of >5,000 events was performed. This antibody gave a positive signal in Jurkat cells fixed with 80% methanol (5 min)/permeabilized with 0.1% PBS-Tween for 20 min used under the same conditions.

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

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