abcam

Product datasheet

Anti-Oct6 antibody [EPR24057-94] - BSA and Azide free ab281842

Recombinant RabMAb

12 Images

Overview

Product name	Anti-Oct6 antibody [EPR24057-94] - BSA and Azide free
Description	Rabbit monoclonal [EPR24057-94] to Oct6 - BSA and Azide free
Host species	Rabbit
Tested applications	**Suitable for:** Flow Cyt (Intra), WB, IHC-P, IHC-Fr, ICC/IF **Unsuitable for:** IP
Species reactivity	**Reacts with:** Mouse, Rat, Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: Rat P0 brain, Rat P7 hippocampus, Mouse P1 brain, F9, NCCIT lysates. IHC-P: Human skin, Mouse cerebrum and Rat skin tissues. IHC-Fr: Mouse E14.5 embryonic, Rat E14.5 embryonic tissues. ICC/IF: rat primary neuron, mouse primary neuron cellss. Flow Cyt: Mouse primary neuron, Rat primary neuron cells.
General notes	ab281842 is the carrier-free version of **ab259952**. Our **carrier-free** 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. 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. Use our **conjugation kits** for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold. This product is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar® is a trademark of Fluidigm Canada Inc. This product is a recombinant monoclonal antibody, which offers several advantages including: - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information **see here**.

Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C.
Storage buffer	Constituent: 100% PBS
Carrier free	Yes
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR24057-94
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab281842 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: 45 kDa.
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
IHC-Fr		Use at an assay dependent concentration. Heat mediated antigen retrieval using sodium citrate buffer (10mM citrate pH 6.0 + 0.05% Tween-20)
ICC/IF		Use at an assay dependent concentration.

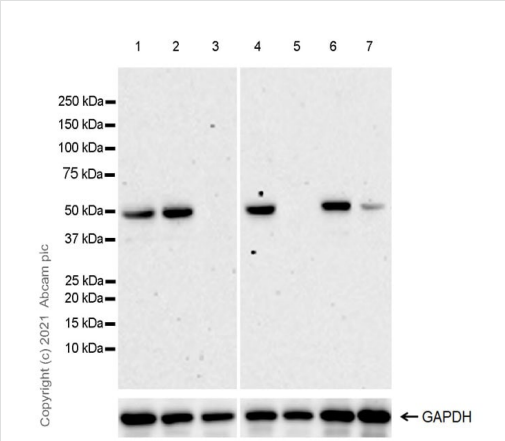
Application notes Is unsuitable for IP.

Target

Function	Transcription factor that binds to the octamer motif (5'-ATTTGCAT-3'). Thought to be involved in early embryogenesis and neurogenesis.
Tissue specificity	Expressed in embryonal stem cells and in the developing brain.
Sequence similarities	Belongs to the POU transcription factor family. Class-3 subfamily. Contains 1 homeobox DNA-binding domain. Contains 1 POU-specific domain.

Cellular localization Nucleus.

Images



Western blot - Anti-Oct6 antibody [EPR24057-94] - BSA and Azide free (ab281842)

All lanes : Anti-Oct6 antibody [EPR24057-94] (**ab259952**) at 1/1000 dilution

Lane 1 : Rat P0 brain tissue lysate
Lane 2 : Rat P7 hippocampus tissue lysate
Lane 3 : Rat lung tissue lysate
Lane 4 : Mouse P1 brain tissue lysate
Lane 5 : Mouse lung tissue lysate
Lane 6 : F9 (mouse embryonal carcinoma epithelial cell) whole cell lysate
Lane 7 : NCCIT (human pluripotent embryonic carcinoma epithelial cell) whole cell lysate

Lysates/proteins at 20 µg per lane.

Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/50000 dilution (Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated)

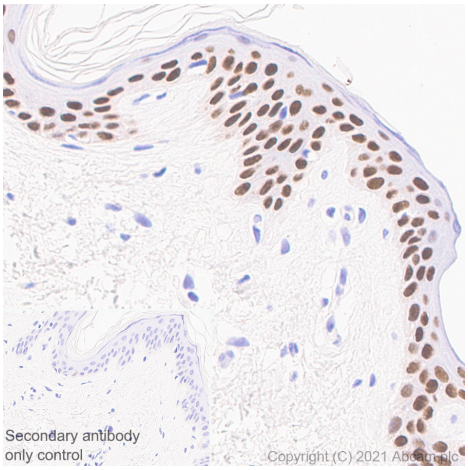
Predicted band size: 45 kDa
Observed band size: 48 kDa

This data was developed using **ab259952**, the same antibody clone in a different buffer formulation.

Blocking and diluting buffer and concentration: 5% NFDM/TBST

Negative control: lung (PMID: 1979677).

Exposure time: 3 minutes



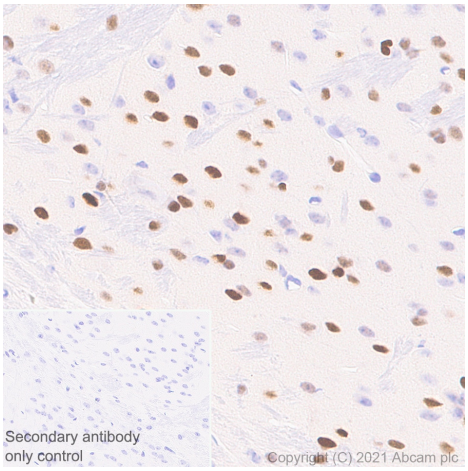
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Oct6 antibody [EPR24057-94] - BSA and Azide free (ab281842)

This data was developed using **ab259952**, the same antibody clone in a different buffer formulation.

Immunohistochemical analysis of paraffin-embedded Human skin tissue labelling Oct6 with **ab259952** at 1/2000 (0.261 ug/ml) dilution followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection). Nuclear staining on epithelial cells of human skin. The section was incubated with **ab259952** for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Oct6 antibody [EPR24057-94] - BSA and Azide free (ab281842)

This data was developed using **ab259952**, the same antibody clone in a different buffer formulation.

Immunohistochemical analysis of paraffin-embedded Mouse cerebrum tissue labelling Oct6 with **ab259952** at 1/2000 (0.261 ug/ml) dilution followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection). Nuclear staining on mouse cerebrum. The section was incubated with **ab259952** for 30 mins at room temperature.The immunostaining was performed on a Leica Biosystems BOND® RX instrument Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

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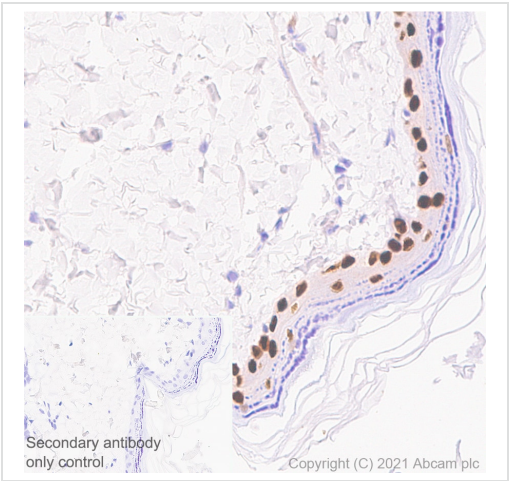

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Oct6 antibody [EPR24057-94] - BSA and Azide free (ab281842)

This data was developed using **ab259952**, the same antibody clone in a different buffer formulation.

Immunohistochemical analysis of paraffin-embedded Rat skin tissue labelling Oct6 with **ab259952** at 1/2000 (0.261 ug/ml) dilution followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection). Nuclear staining on epithelial cells of rat skin. The section was incubated with **ab259952** for 30 mins at room temperature.The immunostaining was performed on a Leica Biosystems BOND® RX instrument Counterstained with Hematoxylin.

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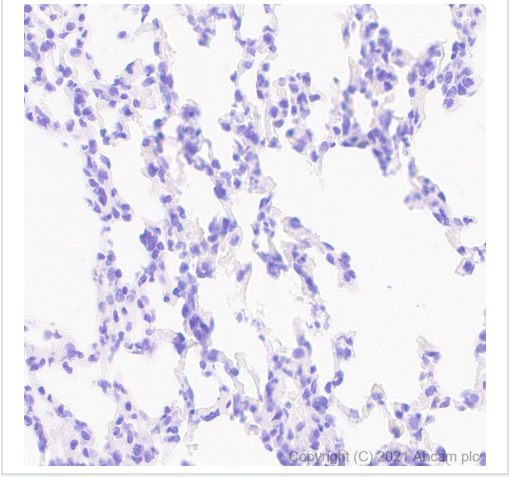


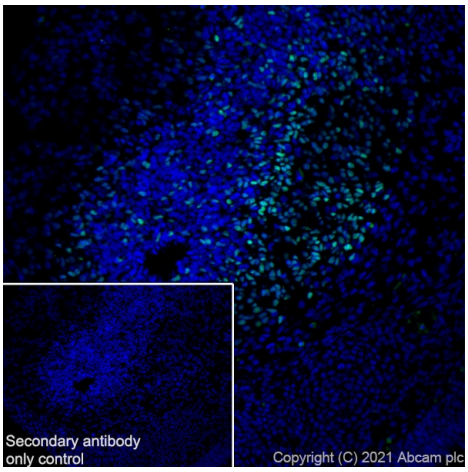
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Oct6 antibody [EPR24057-94] - BSA and Azide free (ab281842)

This data was developed using **ab259952**, the same antibody clone in a different buffer formulation.

Immunohistochemical analysis of paraffin-embedded Rat lung tissue labelling Oct6 with **ab259952** at 1/2000 (0.261 ug/ml) dilution followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection). **Negative control**: No staining in rat lung. The section was incubated with **ab259952** for 30 mins at room temperature.The immunostaining was performed on a Leica Biosystems BOND® RX instrument Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins



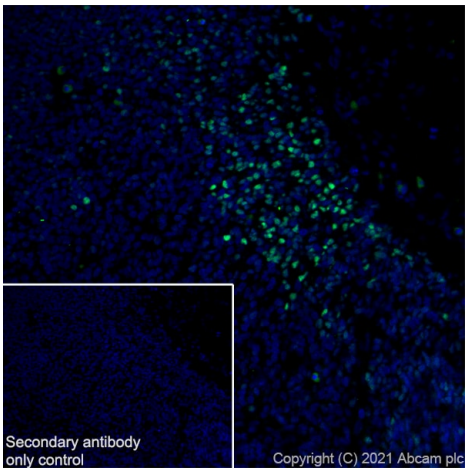
Immunohistochemistry (Frozen sections) - Anti-Oct6 antibody [EPR24057-94] - BSA and Azide free (ab281842)

This data was developed using **ab259952**, the same antibody clone in a different buffer formulation.

Immunohistochemical analysis of 4% PFA-fixed, 0.2% Triton X-100 permeabilized frozen Mouse E14.5 embryonic tissue labeling Oct6 with **ab259952** at 1/100 (5.22 ug/ml) dilution followed by **ab150077** Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) at 1/1000 dilution (Green). Nuclear staining on mouse E14.5 embryonic brain is observed. The nuclear counterstain was DAPI (Blue).

Secondary antibody control: Secondary antibody is **ab150077** Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488)at 1/1000 dilution.

Heat mediated antigen retrieval using sodium citrate buffer (10mM citrate pH 6.0 + 0.05% Tween-20).



Immunohistochemistry (Frozen sections) - Anti-Oct6 antibody [EPR24057-94] - BSA and Azide free (ab281842)

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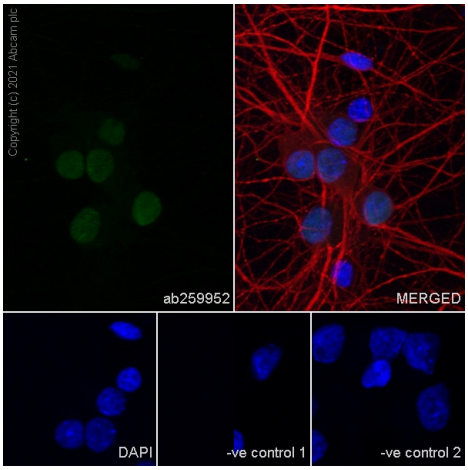
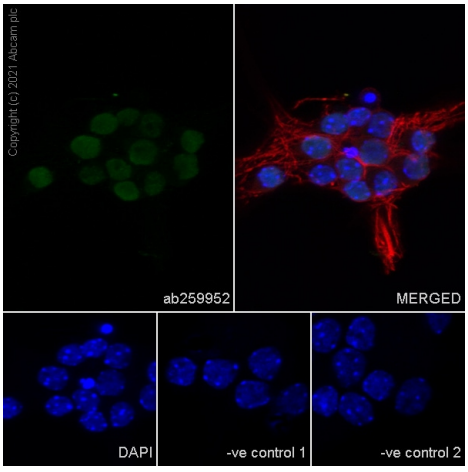


Immunocytochemistry/ Immunofluorescence - Anti-Oct6 antibody [EPR24057-94] - BSA and Azide free (ab281842)

This data was developed using **ab259952**, the same antibody clone in a different buffer formulation.

Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% TritonX-100 permeabilized rat primary neuron cells labelling Oct6 with **ab259952** at 1/50 (10.44 ug/ml) dilution, followed by **ab150077** Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) antibody at 1/1000 dilution (Green) Confocal image showing nuclear staining in rat primary neuron. Confocal scanning Z step was set as 0.3 µm followed by image processing with maximum Z projection is observed. **ab11267** Anti-MAP2 mouse monoclonal antibody was used to counterstain tubulin at 1/500 dilution (Red). The Nuclear counterstain was DAPI (Blue).

Secondary antibody only control: Secondary antibody is **ab150077** Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) at 1/1000 dilution.



Immunocytochemistry/ Immunofluorescence - Anti-Oct6 antibody [EPR24057-94] - BSA and Azide free (ab281842)

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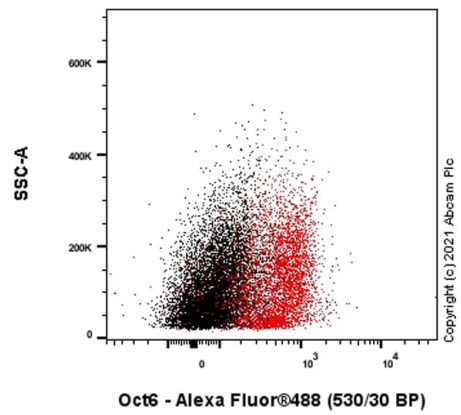
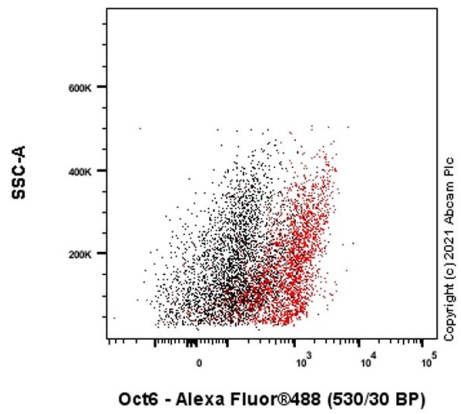


Flow Cytometry (Intracellular) - Anti-Oct6 antibody [EPR24057-94] - BSA and Azide free (ab281842)

This data was developed using **ab259952**, the same antibody clone in a different buffer formulation.

Flow cytometric analysis of 4% paraformaldehyde fixed 90% methanol permeabilized Mouse primary neuron cells cells labelling Oct6 with **ab259952** at 1/50 dilution (1ug)/(Red) compared with a Rabbit monoclonal IgG (**ab172730**) (Black) isotype control. A Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) at 1/2000 dilution was used as the secondary antibody.



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Anti-Oct6 antibody [EPR24057-94] - BSA and Azide free (ab281842)

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