

Anti-Oct-1 antibody [EPR16570] - BSA and Azide free ab240959

Recombinant RabMAb

7 Images

Overview

| | |
|----------------------------|--|
| Product name | Anti-Oct-1 antibody [EPR16570] - BSA and Azide free |
| Description | Rabbit monoclonal [EPR16570] to Oct-1 - BSA and Azide free |
| Host species | Rabbit |
| Tested applications | Suitable for: IHC-P, IP, WB |
| Species reactivity | Reacts with: Mouse, Rat, Human |
| Immunogen | Recombinant fragment. This information is proprietary to Abcam and/or its suppliers. |
| Positive control | WB: Human fetal brain lysate; Mouse and Rat heart lysates; Ramos, HEK-293 and HeLa whole cell lysates. IHC-P: Human endometrium, Human tonsil, Human endometrial cancer, Mouse colon and Rat spleen tissues. IP: HeLa cell lysate. |
| General notes | ab240959 is the carrier-free version of ab178869 . |

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. Do Not Freeze. |
| Storage buffer | pH: 7.2 Constituent: PBS |
| Carrier free | Yes |
| Purity | Protein A purified |
| Clonality | Monoclonal |
| Clone number | EPR16570 |
| Isotype | IgG |

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab240959 in the following tested applications.

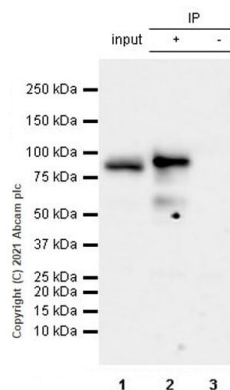
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

| Application | Abreviews | Notes |
|-------------|-----------|---|
| IHC-P | | Use at an assay dependent concentration. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol. |
| IP | | Use at an assay dependent concentration. This antibody is suitable for [IP, Human]. This antibody is not suitable for [IP, Mouse]. |
| WB | | Use at an assay dependent concentration. Detects a band of approximately 95 kDa (predicted molecular weight: 76 kDa). |

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. |

Images



Immunoprecipitation - Anti-Oct-1 antibody
[EPR16570] - BSA and Azide free (ab240959)

Oct-1 was immunoprecipitated from 0.35mg HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysate with **ab178869** at 1/30 dilution (2µg in 0.35mg lysates). Western blot was performed on the immunoprecipitate using **ab178869** at 1/1000 dilution (0.357 µg/ml). VeriBlot for IP Detection Reagent (HRP) (**ab131366**) was used at 1/5000 dilution.

Lane 1: HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysate (10ug).

Lane 2: **ab178869** IP in HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysate.

Lane 3: Rabbit monoclonal IgG (**ab172730**) instead of **ab178869** in HeLa whole cell lysate.

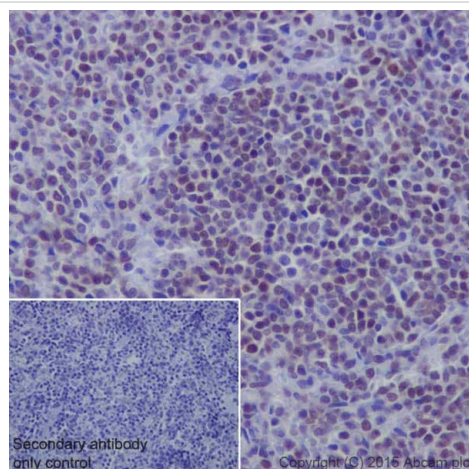
Blocking and dilution buffer and concentration: 5%
NFDM/TBST.

Exposure time: 24 seconds.

Observed band: 76 kDa.

Lysates were made freshly and used in IP test immediately to minimize protein degradation.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab178869**)



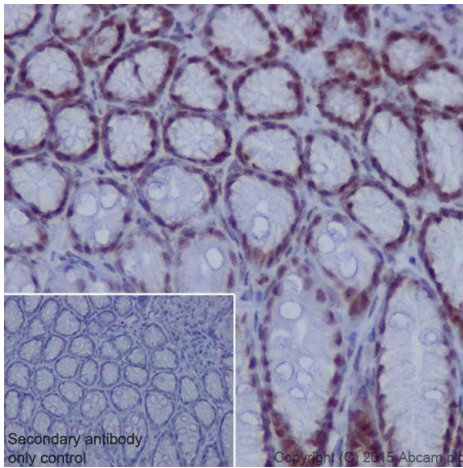
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Oct-1 antibody
[EPR16570] - BSA and Azide free (ab240959)

Immunohistochemical analysis of paraffin-embedded Rat spleen tissue labeling Oct-1 with **ab178869** at 1/500 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution. Nucleus staining on rat spleen tissue is observed. Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is **ab97051** at 1/500 dilution.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab178869**)

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



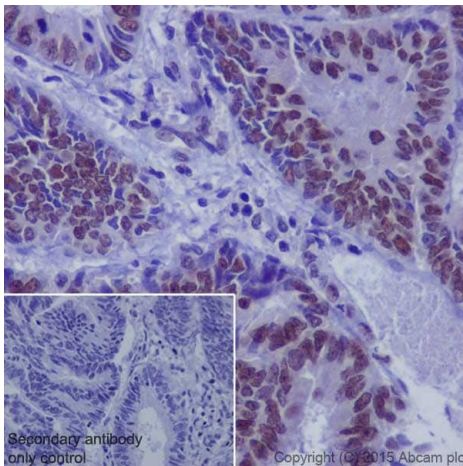
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Oct-1 antibody [EPR16570] - BSA and Azide free (ab240959)

Immunohistochemical analysis of paraffin-embedded Mouse colon tissue labeling Oct-1 with **ab178869** at 1/500 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution. Nucleus staining on epithelium of mouse colon is observed. Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is **ab97051** at 1/500 dilution.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab178869**)

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



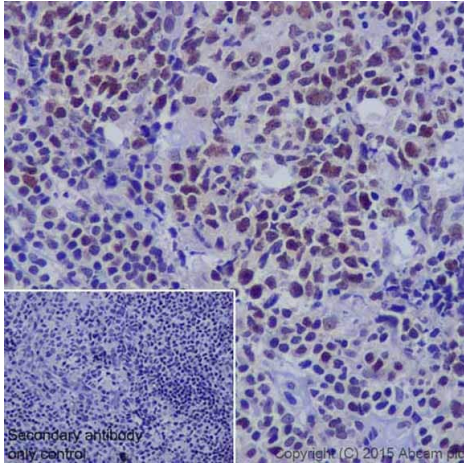
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Oct-1 antibody [EPR16570] - BSA and Azide free (ab240959)

Immunohistochemical analysis of paraffin-embedded Human endometrial cancer tissue labeling Oct-1 with **ab178869** at 1/500 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution. Nucleus staining on tumor cells of Human endometrial cancer tissue is observed. Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is **ab97051** at 1/500 dilution.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab178869**)

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



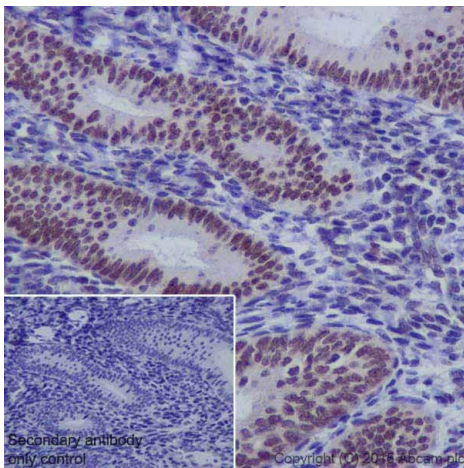
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Oct-1 antibody
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Immunohistochemical analysis of paraffin-embedded Human tonsil tissue labeling Oct-1 with **ab178869** at 1/500 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution. Nucleus staining on Human tonsil tissue is observed. Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is **ab97051** at 1/500 dilution.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab178869**)

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Oct-1 antibody
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Immunohistochemical analysis of paraffin-embedded Human endometrium tissue labeling Oct-1 with **ab178869** at 1/500 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution. Nucleus staining on Human endometrial tissue is observed. Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is **ab97051** at 1/500 dilution.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab178869**)

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

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

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

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