

## Oct-3/4 Monoclonal Antibody

### Description

|                                |                                                                                                                                                                                          |
|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product type</b>            | Primary Antibody                                                                                                                                                                         |
| <b>Code</b>                    | BT-MCA0956                                                                                                                                                                               |
| <b>Host</b>                    | Mouse                                                                                                                                                                                    |
| <b>Isotype</b>                 | IgG                                                                                                                                                                                      |
| <b>Size</b>                    | 50ul, 100ul                                                                                                                                                                              |
| <b>Immunogen</b>               | Purified recombinant human Oct-3/4 protein fragments expressed in E.coli.                                                                                                                |
| <b>Mol wt</b>                  | N/A                                                                                                                                                                                      |
| <b>Species reactivity</b>      | Human                                                                                                                                                                                    |
| <b>Clonality</b>               | Monoclonal                                                                                                                                                                               |
| <b>Recommended application</b> | WB, FCM, IF, ICC                                                                                                                                                                         |
| <b>Concentration</b>           | 1 mg/ml                                                                                                                                                                                  |
| <b>Full name</b>               | POU domain class 5 transcription factor 1                                                                                                                                                |
| <b>Synonyms</b>                | POU5F1; OCT3; OCT4; OTF3; POU domain; class 5; transcription factor 1; Octamer-binding protein 3; Oct-3; Octamer-binding protein 4; Oct-4; Octamer-binding transcription factor 3; OTF-3 |

**This product is for research use only, not for use in human, therapeutic or diagnostic procedure.**

### Background

This gene encodes a transcription factor containing a POU homeodomain that plays a key role in embryonic development and stem cell pluripotency. Aberrant expression of this gene in adult tissues is associated with tumorigenesis. This gene can participate in a translocation with the Ewing's sarcoma gene on chromosome 21, which also leads to tumor formation. Alternative splicing, as well as usage of alternative AUG and non-AUG translation initiation codons, results in multiple isoforms. One of the AUG start codons is polymorphic in human populations. Related pseudogenes have been identified on chromosomes 1, 3, 8, 10, and 12.

### Recommended Dilution

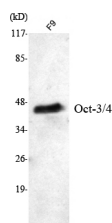
FC: 1:100 - 1:200

IF: 1:100 - 1:500

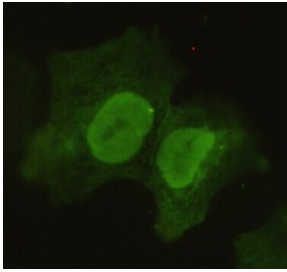
WB: 1:1000 - 1:2000

Not yet tested in other applications.

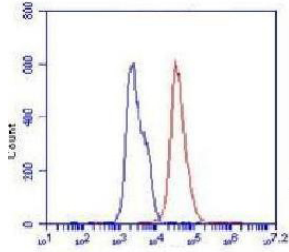
### Images



Western Blot analysis using Oct-3/4 Monoclonal antibody against F9 cell lysate.



Immunofluorescence analysis of COS7 cells using Oct-3/4 Monoclonal antibody.



Flow cytometric analysis of F9 cells stained with Oct-3/4 Monoclonal antibody (red), followed by FITC-conjugated goat anti-mouse IgG. Blue line histogram represents the isotype control, normal mouse IgG.

### Storage

-20°C for one year

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