

**Product Name: Oct-4 (3F5) Mouse Monoclonal Antibody**  
**Catalog #: AMM03422**

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## Summary

|                        |                                       |
|------------------------|---------------------------------------|
| <b>Production Name</b> | Oct-4 (3F5) Mouse Monoclonal Antibody |
| <b>Description</b>     | Mouse Monoclonal Antibody             |
| <b>Host</b>            | Mouse                                 |
| <b>Application</b>     | WB                                    |
| <b>Reactivity</b>      | Mouse                                 |

## Performance

|                     |                                                                                                |
|---------------------|------------------------------------------------------------------------------------------------|
| <b>Conjugation</b>  | Unconjugated                                                                                   |
| <b>Modification</b> | Unmodified                                                                                     |
| <b>Isotype</b>      | IgG2b                                                                                          |
| <b>Clonality</b>    | Monoclonal                                                                                     |
| <b>Form</b>         | Liquid                                                                                         |
| <b>Storage</b>      | Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.       |
| <b>Buffer</b>       | Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% sodium azide, pH 7.3. |
| <b>Purification</b> | Affinity Purification                                                                          |

## Immunogen

|                          |                                                                                                           |
|--------------------------|-----------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>         | Pou5F1                                                                                                    |
| <b>Alternative Names</b> | Oct-4 (3F5); Oct3; Oct4; Otf3; Otf4; NF-A3; Oct-3; Oct-4; Otf-3; Otf-4; Otf3g; Oct3/4; Oct-3/4; Otf3-rs7. |
| <b>Gene ID</b>           | 18999.0                                                                                                   |
| <b>SwissProt ID</b>      | P20263.                                                                                                   |

## Application

|                         |                                            |
|-------------------------|--------------------------------------------|
| <b>Dilution Ratio</b>   | WB: 1:500-1:1000                           |
| <b>Molecular Weight</b> | Calculated MW: 38 kDa; Observed MW: 45 kDa |

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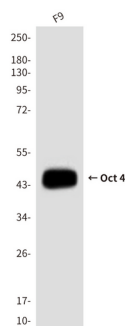
## Background

Transcription factor that binds to the octamer motif (5'-ATTGTCAT-3'). Forms a trimeric complex with SOX2 on DNA and controls the expression of a number of genes involved in embryonic development such as YES1, FGF4, UTF1 and ZFP206. Critical for early embryogenesis and for embryonic stem cell pluripotency.

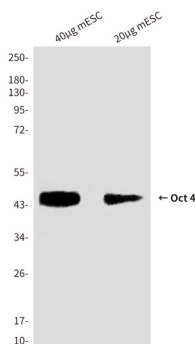
## Research Area

Epigenetics and Nuclear Signaling

## Image Data



Western blot analysis of POU5F1/Oct-4 in F9 lysates using POU5F1/Oct-4 antibody.



Western blot analysis of Oct-4 (3F5) in 20ug and 40ug mESC lysates using POU5F1/Oct-4 antibody.

## Note

For research use only.