

## Mouse anti-Human Oct-3/4 Monoclonal Antibody | anti-Oct-3/4 antibody

Oct-3/4 Monoclonal Antibody

| CATALOG # | HOST  | REACTIVITY | APPLICATIONS                                                                            |
|-----------|-------|------------|-----------------------------------------------------------------------------------------|
| AAA320272 | Mouse | Human      | Immunocytochemistry, Immunofluorescence, Flow Cytometry, Functional Assay, Western Blot |

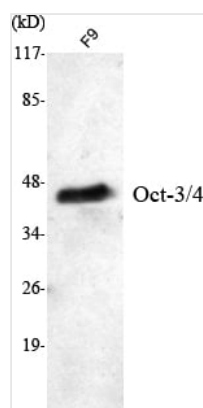
### PRODUCT SYNONYMS

Oct-3/4; Monoclonal Antibody; Oct-3/4 Monoclonal Antibody; POU domain class 5 transcription factor 1; 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; anti-Oct-3/4 antibody

### PRODUCT SPECIFICATIONS

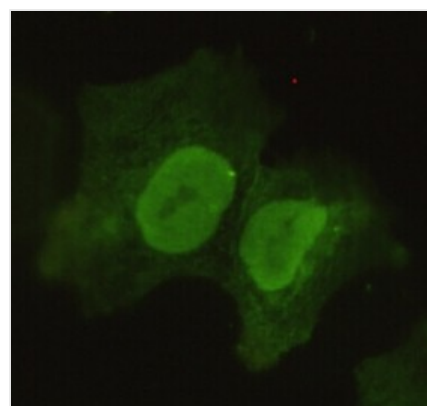
|                                                   |                                                                                                  |
|---------------------------------------------------|--------------------------------------------------------------------------------------------------|
| Host                                              | Mouse                                                                                            |
| Reactivity                                        | Human                                                                                            |
| Clonality                                         | Monoclonal                                                                                       |
| Specificity                                       | Oct-3/4 Monoclonal Antibody detects endogenous levels of Oct-3/4 protein.                        |
| Purity/Purification                               | Affinity purification                                                                            |
| Form/Format                                       | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.                          |
| Concentration                                     | 1mg/ml (varies by lot)                                                                           |
| Applicable Applications for anti-Oct-3/4 antibody | ICC (Immunocytochemistry), IF (Immunofluorescence), FCM/FACS (Flow Cytometry), WB (Western Blot) |
| Immunogen                                         | Purified recombinant human Oct-3/4 protein fragments expressed in E coli.                        |
| Modification                                      | Unmodified/Total                                                                                 |
| Preparation and Storage                           | Store at -20 degree C/1 year                                                                     |

### IMAGES



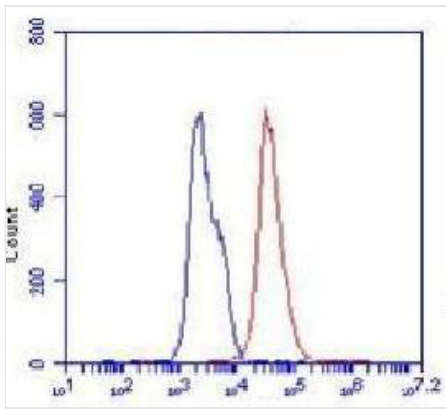
#### FCM/FACS (Flow Cytometry)

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.



#### IF (Immunofluorescence)

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



WB (Western Blot)  
Western Blot analysis using Oct-3/4 Monoclonal Antibody against F9 cell lysate.

### ADDITIONAL INFORMATION

|                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-Oct-3/4 antibody | 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. [provided by RefSeq, Oct 2013] |
| Product Categories/Family for anti-Oct-3/4 antibody   | Primary Antibodies                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

### NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                                                                                                                                                                 |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 42560248                                                                                                                                                                                                                                                        |
| NCBI GeneID                      | 5460                                                                                                                                                                                                                                                            |
| NCBI Accession #                 | NP_002692.2                                                                                                                                                                                                                                                     |
| NCBI GenBank Nucleotide #        | NM_002701.4                                                                                                                                                                                                                                                     |
| UniProt Accession #              | Q01860; P31359; Q15167; Q15168; Q16422; Q5STF3; Q5STF4; A6NCS1; A6NLL8; D2IYK4                                                                                                                                                                                  |
| Molecular Weight                 | 38,571 Da                                                                                                                                                                                                                                                       |
| NCBI Official Full Name          | POU domain, class 5, transcription factor 1 isoform 1                                                                                                                                                                                                           |
| NCBI Official Synonym Full Names | POU class 5 homeobox 1                                                                                                                                                                                                                                          |
| NCBI Official Symbol             | POU5F1                                                                                                                                                                                                                                                          |
| NCBI Official Synonym Symbols    | OCT3; OCT4; OTF3; OTF4; OTF-3; Oct-3; Oct-4                                                                                                                                                                                                                     |
| NCBI Protein Information         | POU domain, class 5, transcription factor 1; octamer-binding protein 3; octamer-binding protein 4; POU domain transcription factor OCT4; octamer-binding transcription factor 3; octamer-binding transcription factor-3; POU-type homeodomain-containing DNA-bi |
| UniProt Protein Name             | POU domain, class 5, transcription factor 1                                                                                                                                                                                                                     |
| UniProt Gene Name                | POU5F1                                                                                                                                                                                                                                                          |
| UniProt Synonym Gene Names       | OCT3; OCT4; OTF3; Oct-3; Oct-4; OTF-3                                                                                                                                                                                                                           |
| UniProt Entry Name               | PO5F1_HUMAN                                                                                                                                                                                                                                                     |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/oct-3-4-antibody-immunocytochemistry-immunofluorescence-flow-cytometry-western-blot-elisa/320272>