# Mouse anti-Human Octamer Binding Transcription Factor 4 (OCT4) Monoclonal Antibody | anti-OCT4 antibody

Monoclonal Antibody to Octamer Binding Transcription Factor 4 (OCT4)

| CATALOG # | HOST | REACTIVITY | APPLICATIONS |
|---|---|---|---|
| **AAA152593** | **Mouse** | **Human** | **Immunoprecipitation, Immunocytochemistry, Immunohistochemistry, Western Blot** |

## PRODUCT SYNONYMS

Octamer Binding Transcription Factor 4 (OCT4); Monoclonal Antibody; Monoclonal Antibody to Octamer Binding Transcription Factor 4 (OCT4); Octamer Binding Transcription Factor 4; POU5F1; OCT3; OTF3; OTF4; Octamer-4; POU Domain Class 5 Transcription Factor 1; POU Class 5 Homoeobox 1; Octamer-binding protein 3; anti-OCT4 antibody

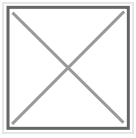
## PRODUCT SPECIFICATIONS

| | |
|---|---|
| **Host** | Mouse |
| **Reactivity** | Human |
| **Clonality** | Monoclonal |
| **Isotype** | IgG2a Kappa |
| **Clone Number** | C7 |
| **Specificity** | The antibody is a mouse monoclonal antibody raised against OCT4. It has been selected for its ability to recognize OCT4 in immunohistochemical staining and western blotting. |
| **Purity/Purification** | Protein A + Protein G affinity chromatography |
| **Form/Format** | Liquid. 0.01M PBS, pH7.4, containing 0.05% Proclin-300, 50% glycerol. |
| **Concentration** | 1mg/mL (varies by lot) |
| **Sequence Positions** | Ser136~Asn360 |
| **Applicable Applications for anti-OCT4 antibody** | IP (Immunoprecipitation), ICC (Immunocytochemistry), IHC (Immunohistochemistry), WB (Western Blot) |
| **Immunogen** | Recombinant Octamer Binding Transcription Factor 4 (OCT4) |
| **Preparation and Storage** | Store at 4 degree C for frequent use. Store at -20 degree C in a manual defrost freezer for two year without detectable loss of activity. Avoid repeated freeze-thaw cycles.<br>Stable for 12 months if correctly stored.<br>The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 degree C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition. |

## IMAGES

**IHC (Immunohistochemisry)**
DAB staining on IHC-P;Sample: Rat Spinal cord TissuePrimary Ab: 30ug/ml Mouse Anti-human OCT4 AntibodyControl: Used PBS instead of primary antibodySecond Ab: 2 ug/ml HRP-Linked Caprine Anti-Mouse IgG Polyclonal Antibody

**IHC (Immunohiostchemistry)**
DAB staining on IHC-P;Sample: Rat Kidney TissuePrimary Ab: 30ug/ml Mouse Anti-human OCT4 AntibodyControl: Used PBS instead of primary antibodySecond Ab: 2 ug/ml HRP-Linked Caprine Anti-Mouse IgG Polyclonal Antibody



**IHC (Immunohistochemistry)**
DAB staining on IHC-P; Sample: Rat Liver Tissue Primary Ab: 30ug/ml Mouse Anti-human OCT4 Antibody Control: Used PBS instead of primary antibody Second Ab: 2 ug/ml HRP-Linked Caprine Anti-Mouse IgG Polyclonal Antibody

## ADDITIONAL INFORMATION

| | |
|---|---|
| **Product Categories/Family for anti-OCT4 antibody** | Monoclonal Antibodies (Primary Abs); Monoclonal antibodies; Signal transduction |

## 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.

**AAA Biotech** | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: https://stage.aaabiotech.com/monoclonal/octamer-binding-transcription-factor-4-oct4-antibody-clone-c7-immunoprecipitation-immunocytochemistry-immunohistochemistry-western-blot-elisa/152593