

Mouse Anti-OCT-1 antibody

SLM-33095M

Product Name OCT-1

Chinese Name 胚胎 Stem cells 关键蛋白 1 单克隆抗体

Alias class 2; transcription factor 1; FLJ42836; NF A1; NF-A1; Oct1; Oct-1; OCT1; Octamer binding protein 1; Octamer binding transcription factor 1; Octamer-binding protein 1; Octamer-binding transcription factor 1; OTF 1; OTF-1; OTF1; OTTHUMP00000032348; OTTHUMP00000032350; OTTHUMP00000032351; PO21; PO2F1; PO2F1_HUMAN; POU class 2 homeobox 1; POU domain; POU domain class 2 transcription factor 1; POU2F1.

Research Area Tumour Cell biology immunology Stem cells transcriptional regulatory factor

Immunogen Species Mouse

Clonality Monoclonal

Clone NO. 9A3

React Species Human

Applications WB=1:500-1000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500 (Paraffin sections need antigen repair)
not yet tested in other applications.
optimal dilutions/concentrations should be determined by the end user.

Theoretical molecular weight 76kDa

Cellular localization The nucleus

Form Liquid

Concentration 1mg/ml

immunogen KLH conjugated synthetic peptide derived from human Oct1

Lsotype IgG

Purification affinity purified by Protein G

Buffer Solution 1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.

| | |
|-------------------------|---|
| Storage | Shipped at 4°C. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. |
| Attention | This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications. |
| PubMed | PubMed 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. |
| Product Detail | 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. |
| | Subunit: Interacts with NR3C1, AR, PGR and HCFC1. Associates with the herpes simplex virus VP16-induced complex; binding to HCFC1 activates the viral transcriptional activator VP16 for association with POU2F1, to form a multiprotein-DNA complex responsible for activating transcription of the viral immediate early genes. |
| | Subcellular Location: Nucleus. |
| | Tissue Specificity: Ubiquitous. Isoform 2 is lymphocyte-specific. |
| | Post-translational modifications: Phosphorylated by PRKDC. |
| | Similarity: Belongs to the POU transcription factor family. Class-2 subfamily. Contains 1 homeobox DNA-binding domain. Contains 1 POU-specific domain. |
| SWISS: P14859 | |

Gene ID:
5451

Database links:

[Entrez Gene: 5451](#) Human

[Entrez Gene: 18986](#) Mouse

[Entrez Gene: 171068](#) Rat

[Omim: 164175](#) Human

[SwissProt: P14859](#) Human

[SwissProt: P25425](#) Mouse

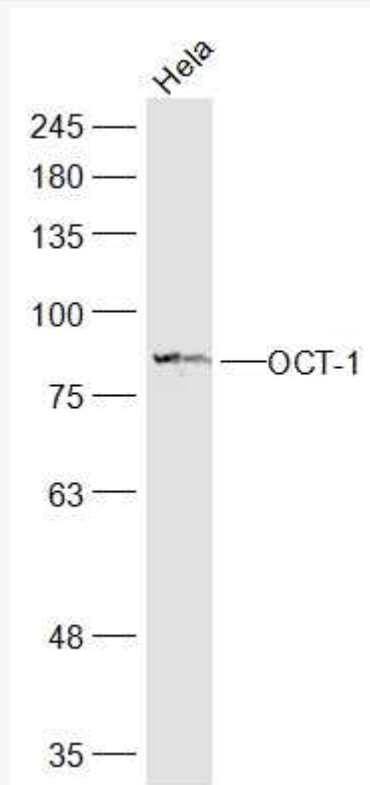
[SwissProt: P31503](#) Rat

[Unigene: 283402](#) Human

[Unigene: 245261](#) Mouse

[Unigene: 46306](#) Rat

**Product
Picture**



Sample:

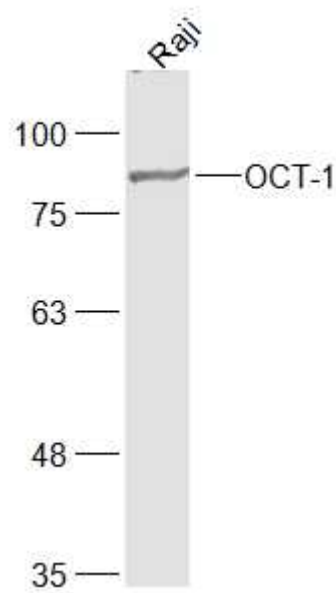
HeLa(Human) Cell Lysate at 30 ug

Primary: Anti-OCT-1 (SLM-33095M) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Mouse IgG at 1/20000 dilution

Predicted band size: 76 kD

Observed band size: 80 kD



Sample:

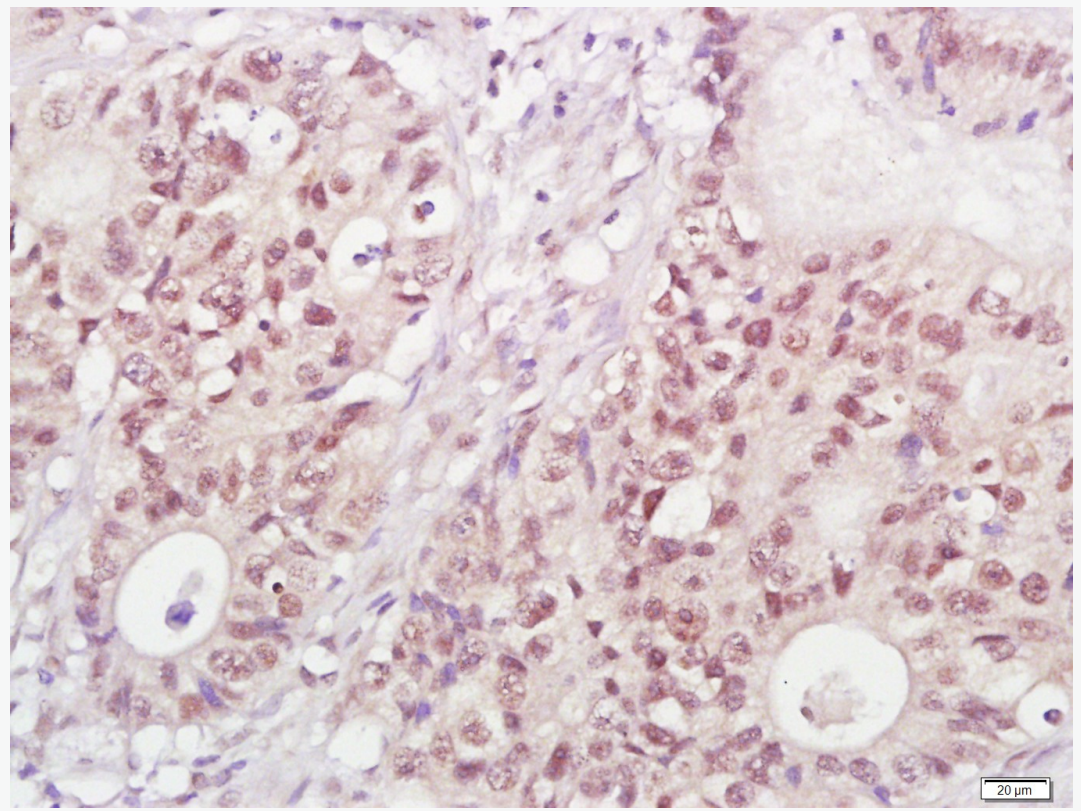
Raji(Human) Cell Lysate at 30 ug

Primary: Anti-OCT-1 (SLM-33095M) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Mouse IgG at 1/20000 dilution

Predicted band size: 76 kD

Observed band size: 80 kD



Paraformaldehyde-fixed, paraffin embedded (Human cervical cancer); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (OCT-1) Polyclonal Antibody, Unconjugated (SLM-33095M) at 1:500 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.