



Rabbit Anti-OCT-1 antibody

SL1075R

Product Name:	OCT-1
Chinese Name:	胚胎Stem cells关键蛋白1抗体
Alias:	Organic cation transporter1; NF A1; OCT1; OTF 1; OTF1; PO21; PO2F1; POU domain class 2 transcription factor 1; PO2F1_HUMAN.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Pig,Cow,Horse,Rabbit,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	76kDa
Cellular localization:	The nucleus
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human OCT1:301-400/743
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	Oct1 is a 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. It modulates transcription transactivation by NR3C1, AR and PGR and interacts with NR3C1, AR and PGR. Oct1 is Ubiquitous and belongs to the POU transcription factor family class 2 subfamily. Oct1 contains 1 homeobox domain.

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

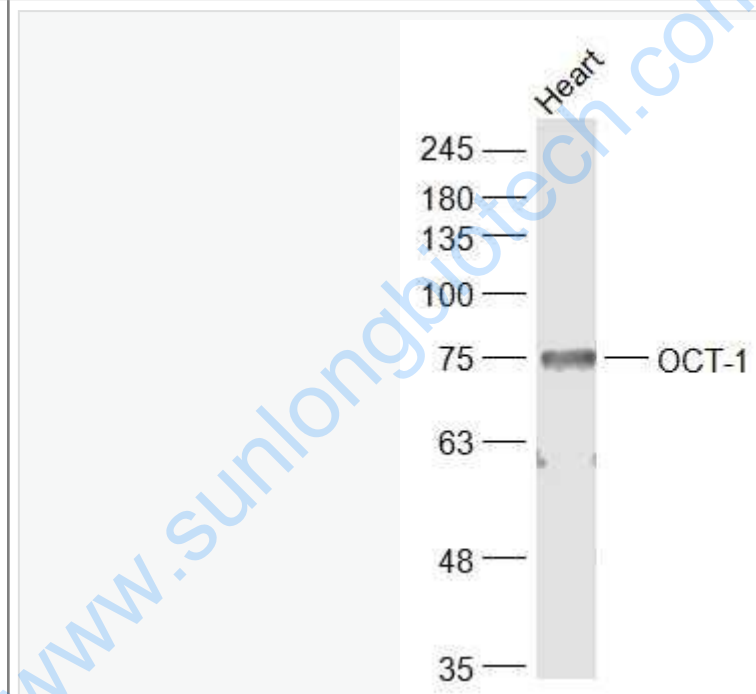
[Unigene: 245261](#)Mouse

[Unigene: 46306](#)Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Picture:



Sample:

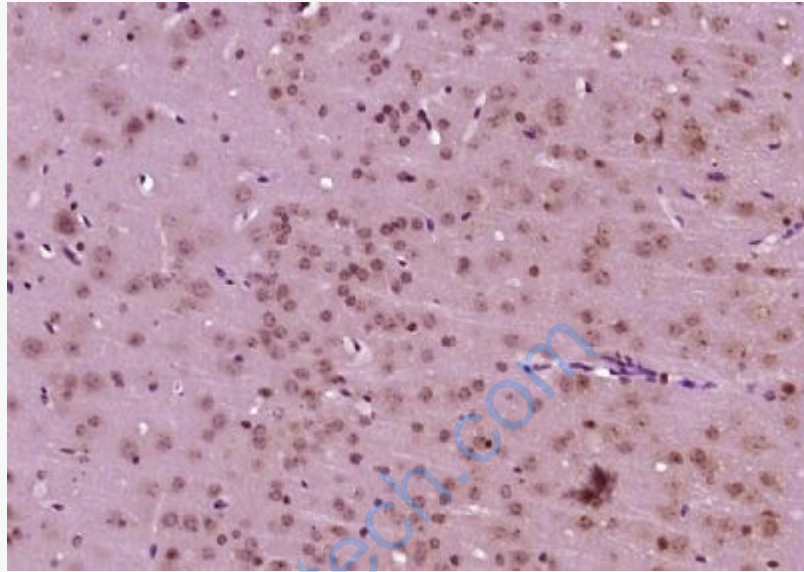
Heart (Rat) Lysate at 40 ug

Primary: Anti-OCT-1 (SL1075R) at 1/1000 dilution

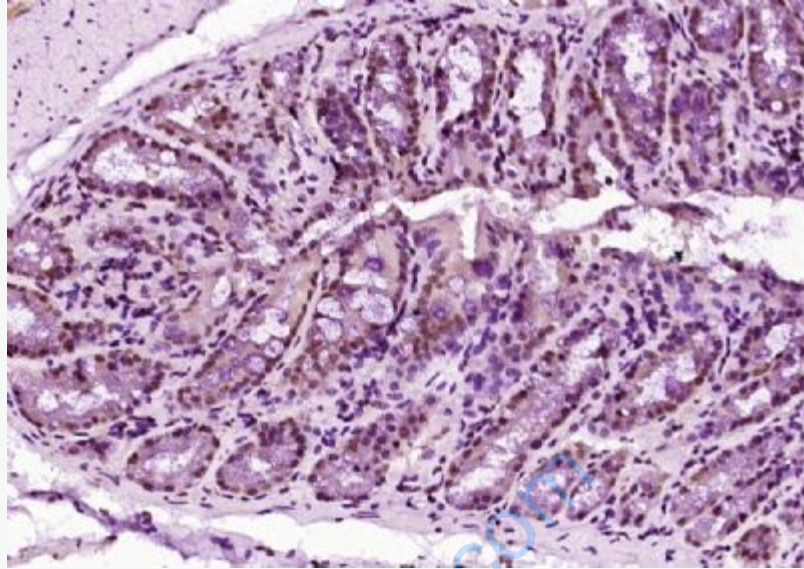
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 76 kD

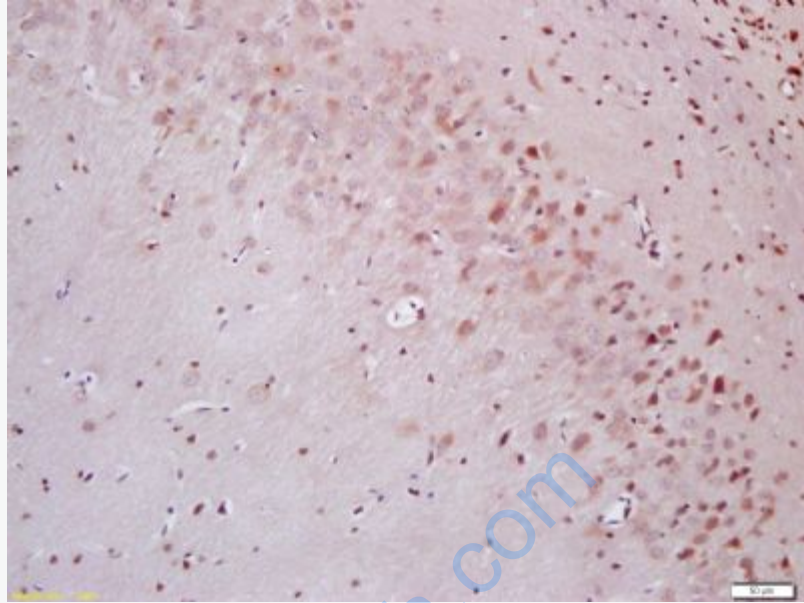
Observed band size: 76 kD



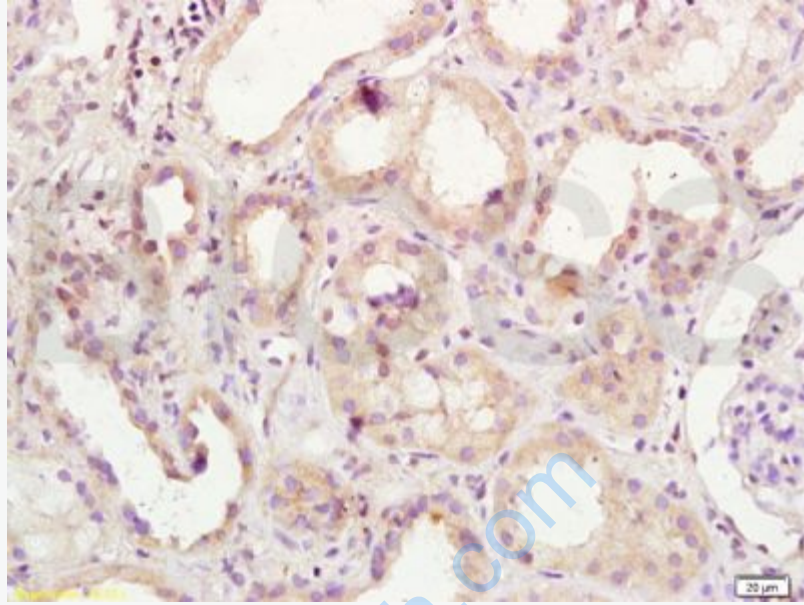
Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (OCT-1) Polyclonal Antibody, Unconjugated (SL1075R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (Rat colon); 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 (SL1075R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;
Incubation: Anti-OCT1 Polyclonal Antibody, Unconjugated(SL1075R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Tissue/cell: human kidney tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;

Incubation: Anti-OCT1 Polyclonal Antibody, Unconjugated(SL1075R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining