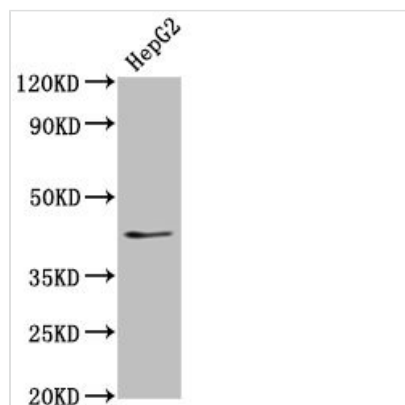




# OCT4 Monoclonal Antibody

<b>Product Code</b>	CSB-MA018403A0m
<b>Storage</b>	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
<b>Uniprot No.</b>	Q01860
<b>Immunogen</b>	Recombinant Human POU domain, class 5, transcription factor 1 protein (1-360AA)
<b>Raised In</b>	Mouse
<b>Species Reactivity</b>	Human, Mouse, Rat
<b>Tested Applications</b>	ELISA, WB, IHC, IF, FC; Recommended dilution: WB:1:500-1:10000, IHC:1:50-1:200, IF:1:50-1:200
<b>Relevance</b>	Transcription factor that binds to the octamer motif (5'-ATTTGCAT-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.
<b>Form</b>	Liquid
<b>Conjugate</b>	Non-conjugated
<b>Storage Buffer</b>	Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, PH 7.4
<b>Purification Method</b>	>95%, Protein G purified
<b>Isotype</b>	IgG2b
<b>Clonality</b>	Monoclonal
<b>Alias</b>	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), POU5F1, OCT3 OCT4 OTF3
<b>Product Type</b>	Monoclonal Antibody
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Clone No.</b>	2H41D8

## Image



### Western Blot

Positive WB detected in: HepG2 whole cell lysate

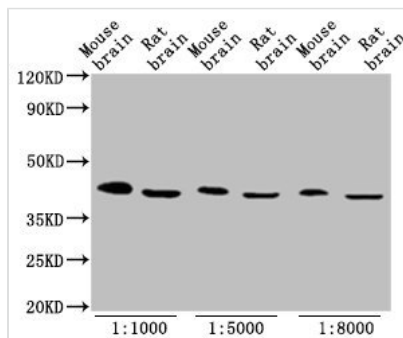
All lanes: OCT4 antibody at 1:500

Secondary

Goat polyclonal to Mouse IgG at 1/10000 dilution

Predicted band size: 39, 31 kDa

Observed band size: 45 kDa



#### Western Blot

Positive WB detected in: Mouse brain tissue, Rat brain tissue

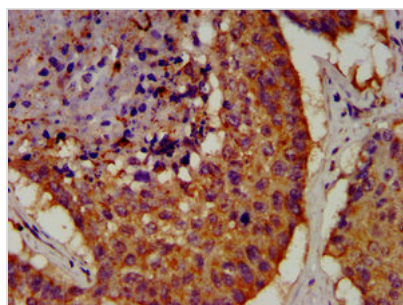
All lanes: OCT4 antibody at 1:1000, 1:5000, 1:8000

Secondary

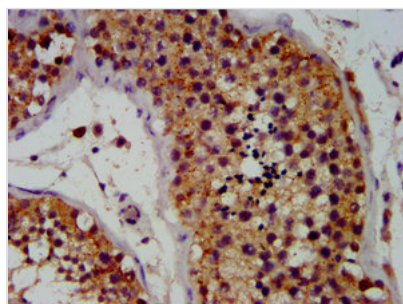
Goat polyclonal to Mouse IgG at 1/10000 dilution

Predicted band size: 39, 31 kDa

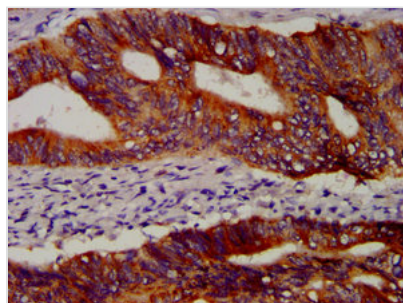
Observed band size: 45 kDa



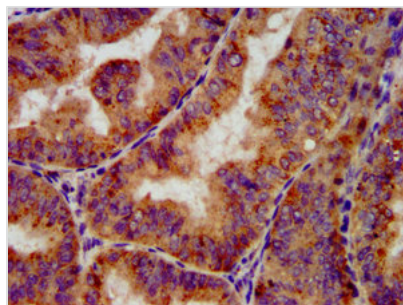
IHC image of CSB-MA018403A0m diluted at 1:100 and staining in paraffin-embedded human lung cancer performed on a Leica Bond<sup>TM</sup> system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.



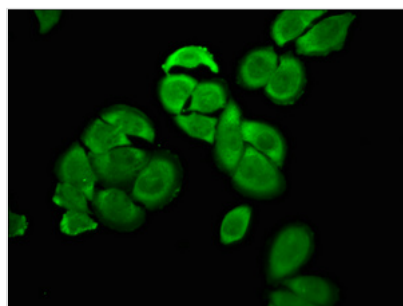
IHC image of CSB-MA018403A0m diluted at 1:100 and staining in paraffin-embedded human testis tissue performed on a Leica Bond<sup>TM</sup> system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.



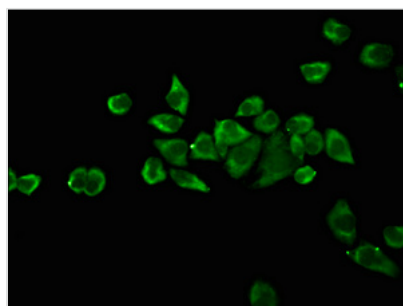
IHC image of CSB-MA018403A0m diluted at 1:100 and staining in paraffin-embedded human colon cancer performed on a Leica Bond<sup>TM</sup> system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.



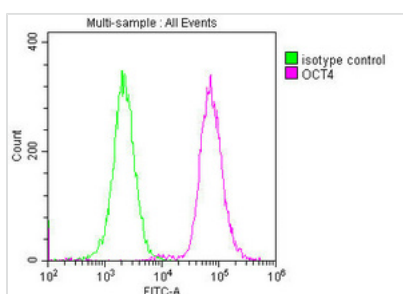
IHC image of CSB-MA018403A0m diluted at 1:100 and staining in paraffin-embedded human endometrial cancer performed on a Leica Bond<sup>TM</sup> system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.



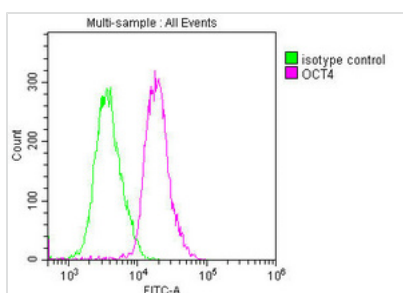
Immunofluorescence staining of A549 cells with CSB-MA018403A0m at 1:100, counter-stained with DAPI. The cells were blocked in 10% normal Goat Serum and then incubated with the primary antibody overnight at 4°C. The secondary antibody was Alexa Fluor 488-conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



Immunofluorescence staining of Ntera-2 cells with CSB-MA018403A0m at 1:100, counter-stained with DAPI. The cells were blocked in 10% normal Goat Serum and then incubated with the primary antibody overnight at 4°C. The secondary antibody was Alexa Fluor 488-conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



Overlay histogram showing A549 cells stained with CSB-MA018403A0m (red line) at 1:100. The cells were incubated in 1x PBS /10% normal goat serum to block non-specific protein-protein interactions followed by primary antibody for 1 h at 4°C. The secondary antibody used was FITC goat anti-mouse IgG(H+L) at 1/200 dilution for 1 h at 4°C. Isotype control antibody (green line) was used under the same conditions. Acquisition of >10,000 events was performed.



Overlay histogram showing Ntera-2 cells stained with CSB-MA018403A0m (red line) at 1:100. The cells were incubated in 1x PBS /10% normal goat serum to block non-specific protein-protein interactions followed by primary antibody for 1 h at 4°C. The secondary antibody used was FITC goat anti-mouse IgG(H+L) at 1/200 dilution for 1 h at 4°C. Isotype control antibody (green line) was used under the same conditions. Acquisition of >10,000 events was performed.