

## Anti-OCT4 Antibody (7S23)

### Product Details

Ig Type:	IgG2b
Reactivity:	Human, Mouse, Rat
Conjugation:	Unconjugated
Clone:	7S23
Purification:	Protein G purified

### Applications

#### 1. 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

#### 2. 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

3. IHC image of TMAH-00842 diluted at 1:100 and staining in paraffin-embedded human lung cancer performed on a Leica Bond™ 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.

#### Verified Activity:

4. IHC image of TMAH-00842 diluted at 1:100 and staining in paraffin-embedded human testis tissue performed on a Leica Bond™ 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.

5. IHC image of TMAH-00842 diluted at 1:100 and staining in paraffin-embedded human colon cancer performed on a Leica Bond™ 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.

6. IHC image of TMAH-00842 diluted at 1:100 and staining in paraffin-embedded human endometrial cancer performed on a Leica Bond™ 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.

7. Immunofluorescence staining of A549 cells with TMAH-00842 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).

8. Immunofluorescence staining of Ntera-2 cells with TMAH-00842 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).

9. Overlay histogram showing A549 cells stained with TMAH-00842 (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.

10. Overlay histogram showing Ntera-2 cells stained with TMAH-00842 (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.

Application: ELISA,FCM,IF,IHC,WB

### Properties

Purity: >95%

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

### Antigen Details

Immunogen: Recombinant Protein: Human POU domain, class 5, transcription factor 1 Protein (1-360AA)

Antigen Species: Human

Gene ID: 5460

Uniprot ID: Q01860

Biology Area: Epigenetics and Nuclear Signaling

### Research Background

Transcription factor that binds to the octamer motif (5'-ATTTGCAT-3'). Forms a trimeric complex with SOX2 or SOX15 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.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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