



MONOCLONAL ANTIBODY

For research use only. Not for clinical diagnosis

Catalog No. CEC-053

Anti- Oct4/POU5F1 antibody

BACKGROUND

Oct4/POU5F1 is a member of POU transcription factor family, which possess POU domain. This transcription factor 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. Oct4/POU5F1 is critical for early embryogenesis and for embryonic stem cell pluripotency.

Product type	Primary antibody
Immunogen	Synthetic peptide corresponding to the C-terminal 15 aa (aa 338 - 352) of mouse Oct4, PSVPVTALGSPMHSN
Host	Rat
Clone number	1C10
Isotype	IgG2a, κ
Source	Culture supernatant
Purification	Ion-exchange chromatography
Form	Liquid
Presentation	Purified monoclonal antibody in PBS, 50% Glycerol, 0.05%w/v ProClin300
Concentration	1 mg/mL
Volume	100 μ L
Label	Unlabeled
Specificity	Oct4/POU5F1
Cross reactivity	Mouse Other species have not been tested.
Storage	Store below -20°C (below -70°C for prolonged storage) Aliquot to avoid cycles of freeze/thaw.
Other	-

Application notes **Recommended use**
WB, ICC Not tested for other applications.

Recommended dilutions
Western blotting, 1/1000 to 1/5000
Immunocytochemistry, 1/100 to 1/500

Optimal dilutions/concentrations should be determined by the end user.

References 1) Sternecker, J. et al. (2011) Oct4 and More: The Reprogramming Expressway. Stem Cells. Oct 18. [Epub ahead of print].

ANTIBODY CHARACTERIZATION

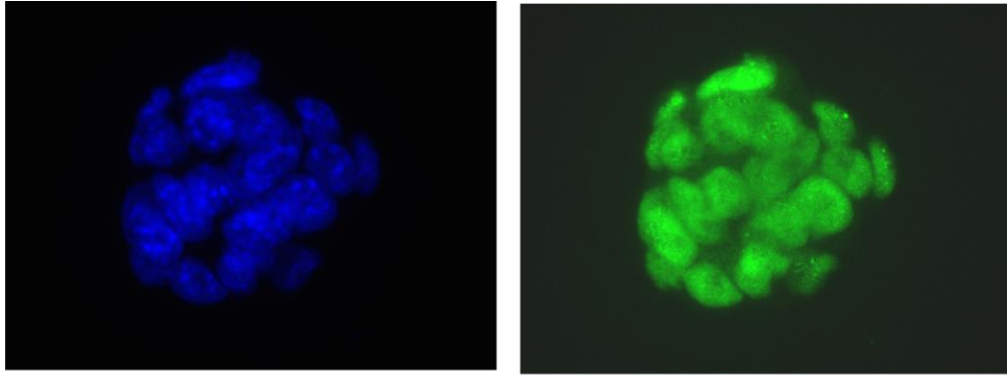


Fig.1 Immunocytochemistry/ Immunofluorescence – Oct4/POU5F1 antibody (1C10), Mouse ES cells



Fig.2 Western blot - Oct4/POU5F1 antibody (1C10), Mouse ES total extracts

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