

MONOCLONAL ANTIBODY

For research use only. Not for clinical diagnosis.

Catalog No. CE-052A

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 antibodies
Host	Rat
Source	Culture supernatant
Form	Liquid
	Purified monoclonal antibody in PBS, 50% Glycerol, 0.05% NaN ₃ .
Volume	100 µl
Concentration	1 mg/ml
Specificity	Oct4/Pou5f1
Antigen	Synthetic peptide corresponding to the C-terminal 15 aa (aa 338 - 352) of mouse Oct4, PSVPVTALGSPMHSN
Clone	1C10
Isotype	IgG2a

Application notes WB, ICC Not tested for other applications.

Recommended dilutions

Western blotting, 1/1,000 to 1/5,000

Immunocytochemistry, 1/100 to 1/500

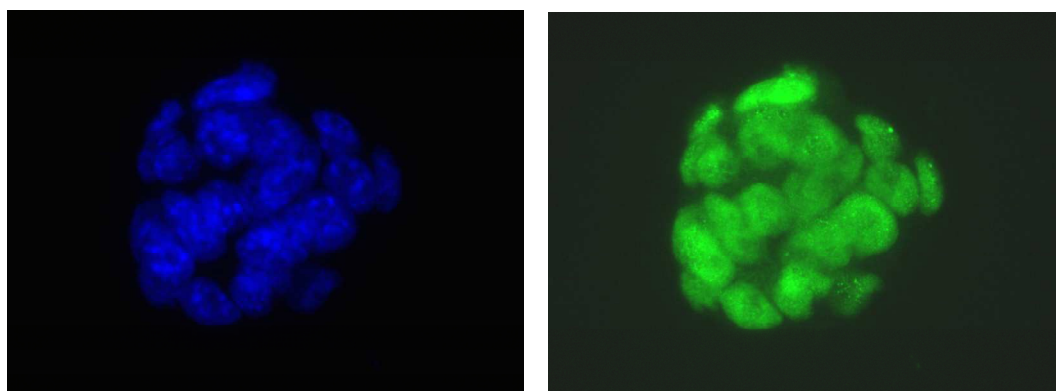


Fig.1 Immunocytochemistry/ Immunofluorescence - Oct4 /Pou5f1 antibody (1C10)
(blue) DAPI, (green) Oct4 mouse ES cells



Fig.2 Western blot - Oct4 /Pou5f1 antibody (1C10)
mouse ES total extracts

Cross reactivity

Optimal dilutions/concentrations should be determined by the end user.
Mouse Other species have not been tested.

Storage

Store below -20°C (below -70°C for prolonged storage).

References

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

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