



# Rabbit Anti-POU5F1 monoclonal antibody, clone TE1861 (CABT-L775)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

Target	Oct4
Immunogen	Recombinant protein
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human, Mouse
Clone	TE1861
Purification	Protein A purified.
Conjugate	Unconjugated
Applications	WB, ICC/IF, IHC, IP, CHIP
Molecular Weight	39 kDa
Cellular Localization	Nucleus, Cytoplasm.
Positive Control	F9, NCCIT, hES, N2A, MCF-7, mouse liver tissue.
Format	Liquid
Size	100 µl
Buffer	1×TBS (pH7.4), 1% BSA, 40% Glycerol.
Preservative	0.05% Sodium Azide

<b>Storage</b>	Store at +4°C after thawing. Aliquot store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
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# BACKGROUND

<b>Introduction</b>	POU5F1 (POU domain, class 5, transcription factor 1), also known as octamer-binding transcription factor-3 (Oct-3, OTF3), octamer-binding transcription factor-4 (Oct-4, Otf-4) and Oct-3/4, modulates embryonic stem (ES) cell populations by influencing lineage commitment. Oct-3/4 sustains stem-cell self-renewal and differentiation pathways. Transcription factors containing the POU homeodomain regulate tissue-specific gene expression in lymphoid and pituitary differentiation and in early mammalian development. Oct-3/4 is capable of inducing rapid proliferation and tumorigenic properties of ES cells through activation of the UTF1 gene. In humans, two Oct-3/4 isoforms contribute to influencing the undifferentiated phenotype of ES cells. Oct-3/4 pseudogenes localizing to human chromosomes 10 and 8 are reported to be transcribed in certain cancer cell lines and tissues.
<b>Keywords</b>	Octamer binding transcription factor 4;MGC22487;Oct 3;Oct 4;Oct-3;Oct-4;OCT3;Oct4;Octamer binding protein 3;Octamer binding protein 4;Octamer binding transcription factor 3;Octamer-binding protein 3;Octamer-binding protein 4;Octamer-binding transcription factor 3;OTF 3;OTF 4;OTF-3;OTF3;OTF4;PO5F1_HUMAN;POU class 5 homeobox 1;POU domain class 5 transcription factor 1;POU domain transcription factor OCT4;POU domain, class 5, transcription factor 1;POU-type homeodomain-containing DNA-binding protein;POU5F1 antibody