

#### OriGene Technologies, Inc.

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# Product datasheet for TA506798M

## Oct4 (POU5F1) Mouse Monoclonal Antibody [Clone ID: OTI7H1]

## **Product data:**

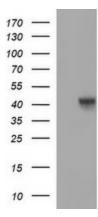
Product Type:	Primary Antibodies
Clone Name:	OTI7H1
Applications:	IF, WB
Recommended Dilution:	WB 1:200~1000, IF: 1:100
Reactivity:	Human, Rat, Mouse
Host:	Mouse
lsotype:	lgG1
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human POU5F1(NP_002692) produced in HEK293T cell.
Formulation:	PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.
Concentration:	1 mg/ml
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	38.4 kDa
Gene Name:	POU class 5 homeobox 1
Database Link:	<u>NP_002692</u> <u>Entrez Gene 18999 MouseEntrez Gene 294562 RatEntrez Gene 5460 Human</u> <u>Q01860</u>



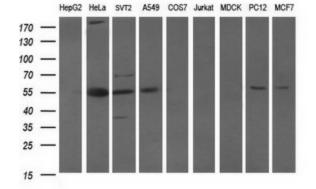
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	Oct4 (POU5F1) Mouse Monoclonal Antibody [Clone ID: OTI7H1] – TA506798M
Background:	This gene encodes a transcription factor containing a POU homeodomain. This transcription factor plays a role in embryonic development, especially during early embryogenesis, and it is necessary for embryonic stem cell pluripotency. A translocation of this gene with the Ewing's sarcoma gene, t(6;22)(p21;q12), has been linked to tumor formation. Alternative splicing, as well as usage of alternative translation initiation codons, results in multiple isoforms, one of which initiates at a non-AUG (CUG) start codon. Related pseudogenes have been identified on chromosomes 1, 3, 8, 10, and 12. [provided by RefSeq, Mar 2010]
Synonyms:	Oct-3; Oct-4; OCT3; OCT4; OTF-3; OTF3; OTF4
Protein Families	: Adult stem cells, Cancer stem cells, Embryonic stem cells, Induced pluripotent stem cells, Stem cell - Pluripotency, Transcription Factors

## **Product images:**



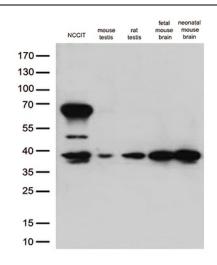
HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY POU5F1 ([RC211998], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-POU5F1. Positive lysates [LY400950] (100ug) and [LC400950] (20ug) can be purchased separately from OriGene.



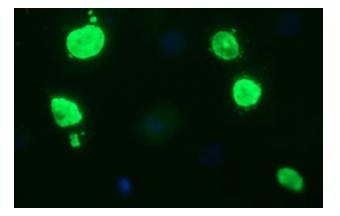
Western blot analysis of extracts (35ug) from 9 different cell lines by using anti-POU5F1 monoclonal antibody (HepG2: human; HeLa: human; SVT2: mouse; A549: human; COS7: monkey; Jurkat: human; MDCK: canine; PC12: rat; MCF7: human).

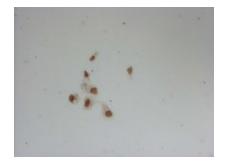
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Western blot analysis of extracts (35ug) from 1 cell line lysate and 4 tissue lysates by using anti-POU5F1 monoclonal antibody (1:250).





Anti-POU5F1 mouse monoclonal antibody ([TA506798]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY POU5F1 ([RC211998]) (1:100).

Immunofluorescent staining of CRL1973 cells using anti-POU5F1 mouse monoclonal antibody ([TA506798]) (1:100).

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