

OriGene Technologies, Inc.

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Product datasheet for TA500035S

Oct4 (POU5F1) Mouse Monoclonal Antibody [Clone ID: OTI9B7]

Product data:

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Product Type:	Primary Antibodies	
Clone Name:	OTI9B7	
Applications:	IF, IHC, WB	
Recommended Dilution:	WB 1:5000, IHC 1:50, IF 1:100	
Reactivity:	Human	
Host:	Mouse	
lsotype:	lgG1	
Clonality:	Monoclonal	
Immunogen:	Full length human recombinant protein of human POU5F1 (NP_002692) produced in E.coli.	
Formulation:	PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.	
Concentration:	0.25 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 5460 Human</u> <u>Q01860</u>	
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.	



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CRIGENE Oct4 (POU5F1) Mouse Monoclonal Antibody [Clone ID: OTI9B7] – TA500035S

Synonyms:

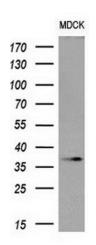
Oct-3; Oct-4; OCT3; OCT4; OTF-3; OTF3; OTF4

Protein Families:Adult stem cells, Cancer stem cells, Embryonic stem cells, Induced pluripotent stem cells,
Stem cell - Pluripotency, Transcription Factors

Product images:

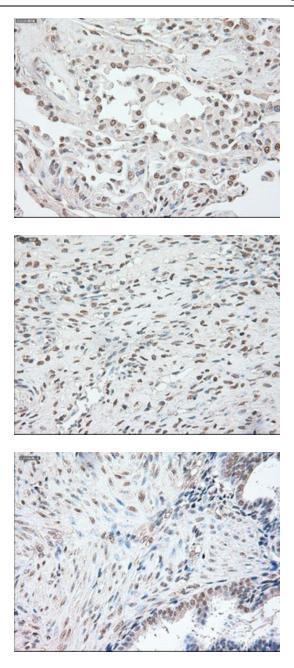
188	-	
98	-	
62	-	
49	-	
38	-	11
28	-	
17 14	-	
14	_	
6 3	=	

HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY OCT4 (Cat# [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-OCT4(Cat# [TA500035]). Positive lysates [LY400950] (100ug) and [LC400950] (20ug) can be purchased separately from OriGene.



Western blot analysis of extracts (10ug) from 1 cell line by using anti-OCT4 monoclonal antibody at 1:200 dilution.

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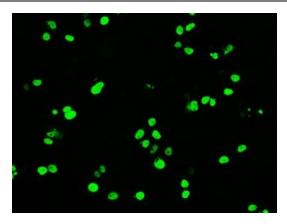
Immunohistochemical staining of paraffinembedded Human lung tissue within the normal limits using anti-OCT4 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA500035])

Immunohistochemical staining of paraffinembedded Human Ovary tissue within the normal limits using anti-OCT4 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA500035])

Immunohistochemical staining of paraffinembedded Human endometrium tissue within the normal limits using anti-OCT4 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA500035])

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Anti-OCT4 mouse monoclonal antibody ([TA500035]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY OCT4 ([RC211998]).

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