

## ARG64003 anti-OCT4 antibody

Package: 100 µg  
Store at: -20°C

### Summary

Product Description	Goat Polyclonal antibody recognizes OCT3/OCT4
Tested Reactivity	Hu, Ms
Predict Reactivity	Dog, Rat
Tested Application	WB
Specificity	This antibody is expected to recognise both reported isoforms (NP_002692.2 and NP_976034.3)
Host	Goat
Clonality	Polyclonal
Isotype	IgG
Target Name	OCT4
Species	Human
Immunogen	C-VTTLGSPMHSN
Conjugation	Un-conjugated
Alternate Names	OTF-3; OCT4; OCT3; Octamer-binding protein 4; OTF3; Oct-3; Oct-4; OTF4; POU domain, class 5, transcription factor 1; Octamer-binding transcription factor 3; Octamer-binding protein 3

### Application Instructions

Application table	Application	Dilution
	WB	0.5 - 2 µg/ml
Application Note	WB: Recommend incubate at RT for 1h. * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

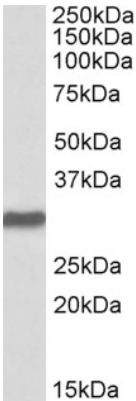
### Properties

Form	Liquid
Purification	Purified from goat serum by antigen affinity chromatography.
Buffer	Tris saline (pH 7.3), 0.02% Sodium azide and 0.5% BSA.
Preservative	0.02% Sodium azide
Stabilizer	0.5% BSA
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Bioinformation

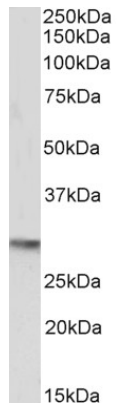
Database links	<a href="#">GeneID: 18999 Mouse</a> <a href="#">GeneID: 5460 Human</a> <a href="#">Swiss-port # P20263 Mouse</a> <a href="#">Swiss-port # Q01860 Human</a>
Background	This gene encodes a transcription factor containing a POU homeodomain. This transcription factor plays a role in embryonic 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]
Research Area	Developmental Biology antibody; Gene Regulation antibody
Calculated Mw	39 kDa
PTM	Sumoylation enhances the protein stability, DNA binding and transactivation activity. Sumoylation is required for enhanced YES1 expression (By similarity). Ubiquitinated; undergoes 'Lys-63'-linked polyubiquitination by WWP2 leading to proteasomal degradation. ERK1/2-mediated phosphorylation at Ser-111 promotes nuclear exclusion and proteasomal degradation. Phosphorylation at Thr-235 and Ser-236 decrease DNA-binding and alters ability to activate transcription.

Images



ARG64003 anti-OCT4 / POU5F1 antibody WB image

Western Blot: Human Placenta lysate (35 µg protein in RIPA buffer) stained with ARG64003 anti-OCT4 antibody at 2 µg/ml dilution.



#### ARG64003 anti-OCT4 antibody WB image

Western blot: 35 µg of Mouse heart lysate (in RIPA buffer) stained with ARG64003 anti-OCT4 antibody at 0.5 µg/ml dilution and incubated at RT for 1 hour.