

**MOUSE ANTI-OCT-4
MONOCLONAL ANTIBODY**

CATALOG NUMBER:	MAB4401	QUANTITY:	100 µg
LOT NUMBER:		CONCENTRATION:	1.0 mg/mL
ALTERNATE NAMES:	POU domain, class 5, transcription factor 1; Oct-3		
CLONE NAME:	10H11.2	HOST/ISOTYPE:	Ms IgG1
BACKGROUND:	<p>Octamer-4 (Oct-4), a member of the POU family of transcription factors, has been demonstrated to be vital for the formation of self-renewing pluripotent stem cells. During embryogenesis, expression of Oct-4 is limited to pluripotent cells of the inner cell mass (ICM) that contribute to the formation of all fetal cell types.</p> <p>This relationship between Oct-4 and pluripotency has seen this transcription factor emerge as a marker of pluripotent stem cells. Undifferentiated human and murine pluripotent Embryonic Stem (ES) and Embryonic Carcinoma (EC) cells express Oct-4. Additionally, murine Embryonic Germ (EG) cells are also known to express Oct-4. Following stem cell differentiation, the level of Oct-4 expression decreases. Oct-4 expression by human EG cells is not known.</p>		
SPECIFICITY:	Reacts with human Oct-4.		
APPLICATIONS:	Western blot: (MW 44 kDa) Flow Cytometry Immunocytochemistry ELISA		
	<i>Optimal working dilutions must be determined by the end user.</i>		
SPECIES REACTIVITY:	Human. Reactivity with other species has not been determined.		
IMMUNOGEN:	Recombinant GST fusion protein, human Oct-4 (aa 1-134).		
PRESENTATION:	Purified Ascites presented as a liquid in PBS with 0.1% sodium azide.		
STORAGE/HANDLING:	Maintain refrigerated at 2-8°C in undiluted aliquots for up to 12 months.		

For research use only; not for use as a diagnostic.

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REFERENCES:

Pesce M. *et al.* (1998). *Bioessays* **20**:722-732
Nichols J. *et al.* (1998). *Cell* **95**:379-391
Donovan P. (2001). *Nature Genetics* **29**:246-247
Niwa H. *et al.* (2000). *Nature Genetics* **24**:372-376

Important Note: *During shipment, small volumes of product will occasionally become entrapped in the seal of the product vial. For products with volumes of 200 μ L or less, we recommend gently tapping the vial on a hard surface or briefly centrifuging the vial in a tabletop centrifuge to dislodge any liquid in the container's cap.*

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