

Mouse anti-Human OCT4 Antibody | anti-OCT4 antibody

OCT4 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA108584	Mouse	Human	ELISA, Flow Cytometry, Functional Assay, Immunofluorescence, Western Blot

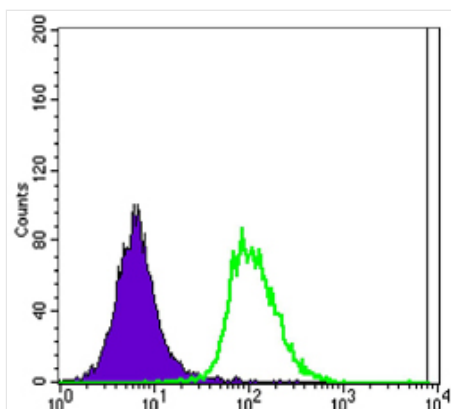
PRODUCT SYNONYMS

OCT4; OCT4 Antibody; OCT3; OTF3; OTF4; OTF-3; Oct-3; Oct-4; MGC22487; POU5F1; anti-OCT4 antibody

PRODUCT SPECIFICATIONS

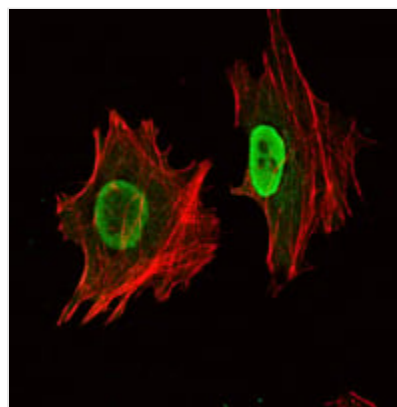
Host	Mouse
Reactivity	Human
Isotype	IgG1
Clone Number	7E7
Form/Format	Ascitic fluid containing 0.03% sodium azide.
Sequence Length	190
Applicable Applications for anti-OCT4 antibody	ELISA, FCM/FACS (Flow Cytometry), IF (Immunofluorescence), WB (Western Blot)
Immunogen	Synthesized peptide derived from internal of human Oct4.
Preparation and Storage	Store at 4 degree C, for long term storage, store at -20 degree C.

IMAGES



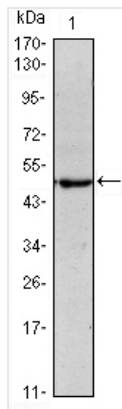
FCM/FACS (Flow Cytometry)

Figure 3: Flow cytometric analysis of Jurkat cells using Oct4 mouse mAb (green) and negative control (purple).



IF (Immunofluorescence)

Figure 2: Immunofluorescence analysis of NTERA-2 cells using Oct4 mouse mAb (green). Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.



WB (Western Blot)

Figure 1: Western blot analysis using Oct4 mouse mAb against NTERA-2 (1) cell lysate.

ADDITIONAL INFORMATION

Related Product Information for anti-OCT4 antibody	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).Tissue specificity: Expressed in developing brain.
Product Categories/Family for anti-OCT4 antibody	Autophagy antibody; Cancer; Cardiovascular; Cell Biology; Epigenetics & Nuclear Signaling; Developmental Biologys; Immunology; Drug Discovery Products; Metabolism; Neuroscience; Signal Transduction; Stem Cells

NCBI AND UNIPROT INFORMATION

NCBI GI #	291167757
NCBI GeneID	5460
NCBI Accession #	NP_001167002.1
NCBI GenBank Nucleotide #	NM_001173531.2
Molecular Weight	45kDa
NCBI Official Full Name	POU domain, class 5, transcription factor 1 isoform 2
NCBI Official Synonym Full Names	POU class 5 homeobox 1
NCBI Official Symbol	POU5F1
NCBI Official Synonym Symbols	OCT3; OCT4; OTF3; OTF4; OTF-3; Oct-3; Oct-4
NCBI Protein Information	POU domain, class 5, transcription factor 1
UniProt Protein Name	POU domain, class 5, transcription factor 1
UniProt Gene Name	POU5F1
UniProt Synonym Gene Names	OCT3; OCT4; OTF3; Oct-3; Oct-4; OTF-3

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.