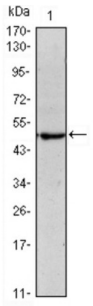
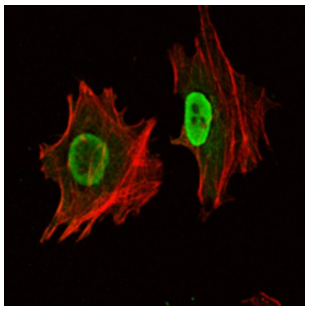
POU Class 5 Homeobox 1 / OCT4 (POU5F1) Antibody

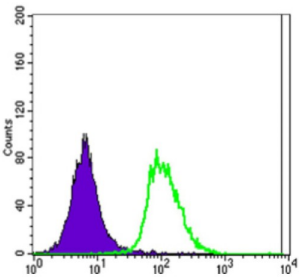
Catalogue No.:abx016067



Western blot analysis using Oct4 antibody against NTERA-2 (1) cell lysate.



Immunofluorescence analysis of NTERA-2 cells using Oct4 antibody (green). Red: Actin filaments have been labeled with AF555 phalloidin.



Flow cytometric analysis of Jurkat cells using Oct4 antibody (green) and negative control (purple).

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.Highest levels found in specific cell layers of the cortex, the olfactory bulb, the hippocampus and the cerebellum.Low levels of expression in adult tissues.

Target:	POU Class 5 Homeobox 1 / OCT4 (POU5F1)
Clonality:	Monoclonal
Reactivity:	Human
Tested Applications:	ELISA, WB, IF/ICC, FCM

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Host:	Mouse
Recommended dilutions:	ELISA: 1/10000, WB: 1/500 - 1/2000, IF/ICC: 1/200 - 1/1000, FCM: 1/200 - 1/400. Optimal dilutions/concentrations should be determined by the end user.
Conjugation:	Unconjugated
Immunogen:	Synthesized peptide derived from internal of human Oct4.
Isotype:	IgG_1
Form:	Liquid
Purification:	Unpurified ascites.
Storage:	Aliquot and store at -20°C. Avoid repeated freeze/thaw cycles.
UniProt Primary AC:	Q01860 (UniProt, ExPASy)
Gene Symbol:	POU5F1
GeneID:	5460
OMIM:	164177
HGNC:	9221
KEGG:	hsa:5460
Ensembl:	ENSG00000204531
String:	9606.ENSP00000259915
Molecular Weight:	45 kDa
Buffer:	Ascitic fluid containing 0.03% sodium azide.
Concentration:	Not determined.
Note:	THIS PRODUCT IS FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC, THERAPEUTIC OR COSMETIC PROCEDURES. NOT FOR HUMAN OR ANIMAL CONSUMPTION.

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