Oct-3/4 Monoclonal Antibody

Description

Product type	Primary Antibody
Code	BT-MCA0955
Host	Mouse
Isotype	IgG
Size	50ul, 100ul
Immunogen	Synthesized peptide derived from internal of human Oct-3/4.
Mol wt	N/A
Species reactivity	Human
Clonality	Monoclonal
Recommended application	WB, IF, ICC, FCM, ELISA
Concentration	1 mg/ml
Full name	POU domain class 5 transcription factor 1
Synonyms	POU5F1; OCT3; OCT4; OTF3; POU domain; class 5; transcription factor 1; Octamer-binding protein 3; Oct-3; Octamer-binding protein 4; Oct-4; Octamer-binding transcription factor 3; OTF-3

This product is for research use only, not for use in human, therapeutic or diagnostic procedure.

Background

This gene encodes a transcription factor containing a POU homeodomain that plays a key role in embryonic development and stem cell pluripotency. Aberrant expression of this gene in adult tissues is associated with tumorigenesis. This gene can participate in a translocation with the Ewing's sarcoma gene on chromosome 21, which also leads to tumor formation. Alternative splicing, as well as usage of alternative AUG and non-AUG translation initiation codons, results in multiple isoforms. One of the AUG start codons is polymorphic in human populations. Related pseudogenes have been identified on chromosomes 1, 3, 8, 10, and 12.
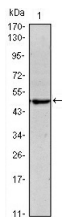
Recommended Dilution
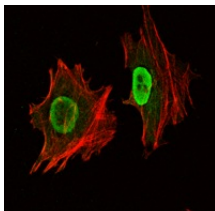
ELISA: 1:10000
FC: 1:200 - 1:400
IF: 1:200 - 1:1000
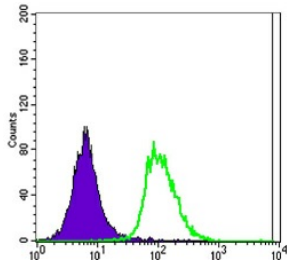WB: 1:500 - 1:2000
Not yet tested in other applications.

Images

Western Blot analysis using Oct-3/4 Monoclonal antibody against NTERA-2 (1) cell lysate.

Immunofluorescence analysis of NTERA-2 cells using Oct-3/4 Monoclonal antibody (green). Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.

Flow cytometric analysis of Jurkat cells using Oct-3/4 Monoclonal antibody (green) and negative control (purple).

Storage

-20°C for one year