



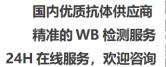
Oct-3/4 Monoclonal Antibody

Catalog No BYab-15740 Isotype IgG Reactivity Human Applications WB;FCM;IF Gene Name POU5F1 Protein Name POU domain class 5 transcription factor 1 Immunogen Purified recombinant human Oct-3/4 protein fragments expressed in E.coli. Specificity Oct-3/4 Monoclonal Antibody detects endogenous levels of Oct-3/4 protein. Formulation Purified mouse monoclonal in buffer containing 0.1M Tris-Glycine (pH 7.4, 150 mM NaCl) with 0.2% sodium azide, 50% glycerol. Source Monoclonal, Mouse Purification Affinity purification Dilution Western Blot: 1/1000 - 1/2000. Flow cytometry: 1/100 - 1/200. immunofluorescence: 1/100 - 1/500. Not yet tested in other applications. Concentration 1 mg/ml Purity ≥90% Storage Stability -20°C/1 year 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 protein 3; Oct-3; Octamer-binding protein 4; Oct-4; Octamer-binding protein 3; Ort-3; Octamer-binding protein 4; Oct-4; O		
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Nanjing BYabscience technology Co.,Ltd

网址: www.njbybio.com 官方热线: 025-5229-8998 监督电话: 15950492658





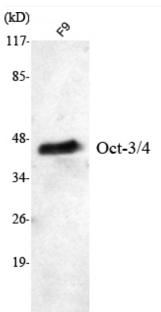


	carcinogenesis.,online information:Oct-4 entry,PTM:Sumoylation enhances the protein stability, DNA binding and transactivation activity. Sumoylation is required for enhanced YES1 expression.,similarity:Belongs to the POU transcription factor family. Class-5 subfamily.,similarity:Contains 1 homeobox DNA-binding doma
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. [provided by RefSeq, Oct 2013],
matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

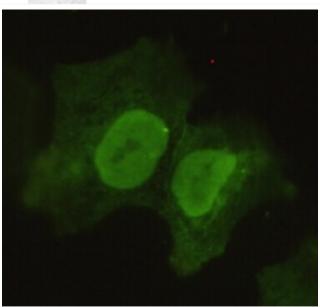




Products Images



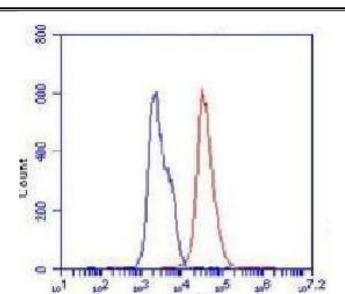
Western Blot analysis using Oct-3/4 Monoclonal Antibody against F9 cell lysate.



Immunofluorescence analysis of COS7 cells using Oct-3/4 Monoclonal Antibody.







Flow cytometric analysis of F9 cells stained with Oct-3/4 Monoclonal Antibody (red), followed by FITC-conjugated goat anti-mouse IgG. Blue line histogram represents the isotype control, normal mouse IgG.

网址: www.njbybio.com 官方热线: 025-5229-8998 监督电话: 15950492658