Product Datasheet

Oct4 Rabbit mAb

Catalog No: #49129

Package Size: #49129-1 50ul #49129-2 100ul



Orders: order@signalwayantibody.com Support: tech@signalwayantibody.com

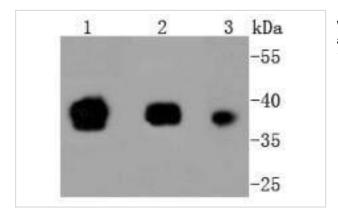
Description

Product Name	Oct4 Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal
Clone No.	SD0750
Purification	ProA affinity purified
Applications	WB, ICC/IF, IHC, IP, CHIP
Species Reactivity	Hu, Ms
Immunogen Description	recombinant protein
Conjugates	Unconjugated
Other Names	Octamer binding transcription factor 4 antibody MGC22487 antibody Oct 3 antibody Oct 4 antibody Oct-3
	antibody Oct-4 antibody OCT3 antibody Oct4 antibody Octamer binding protein 3 antibody Octamer binding
	protein 4 antibody Octamer binding transcription factor 3 antibody Octamer-binding protein 3 antibody
	Octamer-binding protein 4 antibody Octamer-binding transcription factor 3 antibody OTF 3 antibody OTF 4
	antibody OTF-3 antibody OTF3 antibody OTF4 antibody PO5F1_HUMAN antibody POU class 5 homeobox 1
	antibody POU domain class 5 transcription factor 1 antibody POU domain transcription factor OCT4 antibody
	POU domain, class 5, transcription factor 1 antibody POU-type homeodomain-containing DNA-binding protein
	antibody POU5F1 antibody
Accession No.	Swiss-Prot#:Q01860
Calculated MW	39 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

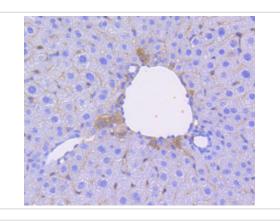
Application Details

WB: 1:1,000-5,000IHC: 1:50-1:200ICC: 1:50-1:200

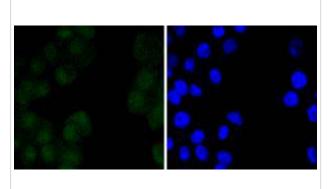
Images



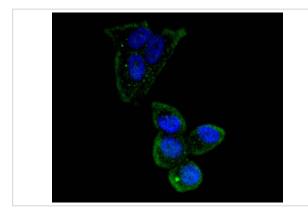
Western blot analysis of Oct4 on different lysates using anti-Oct4 antibody at 1/1,000 dilution. Positive control: Lane 1: F9 Lane 2: NCCIT Lane 3: hES



Immunohistochemical analysis of paraffin-embedded mouse liver tissue using anti-Oct4 antibody. Counter stained with hematoxylin.



ICC staining Oct4 in N2A cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining Oct4 in MCF-7 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

Background

POU5F1 (POU domain, class 5, transcription factor 1), also known as octamer-binding transcription factor-3 (Oct-3, OTF3), octamer-binding transcription factor-4 (Oct-4, Otf-4) and Oct-3/4, modulates embryonic stem (ES) cell populations by influencing lineage commitment. Oct-3/4 sustains stem-cell self-renewal and differentiation pathways. Transcription factors containing the POU homeodomain regulate tissue-specific gene expression in lymphoid and pituitary differentiation and in early mammalian development. Oct-3/4 is capable of inducing rapid proliferation and tumorigenic properties of ES cells through activation of the UTF1 gene. In humans, two Oct-3/4 isoforms contribute to influencing the undifferentiated phenotype of ES cells. Oct-3/4 pseudogenes localizing to human chromosomes 10 and 8 are reported to be transcribed in certain cancer cell lines and tissues.

References

Published Papers

el at., Liquid Helium Enhanced Vitrification Efficiency of Human Bone-Derived Mesenchymal Stem Cells and Human Embryonic Stem Cells. In Bioengineering (Basel) on 2021 Oct 26 by Mengjia Dou, Chennan Lu,et al..PMID:34821728, , (2021)

PMID:34821728

Note: This product is for in vitro research use only and is not intended for use in humans or animals.
The product is for in vitro recognish as only and is not interface for account name of animals.