Datasheet for ABIN969327

anti-OCT4 antibody (AA 193-360)

1 Image | 2 Publications

Go to Product page

Overview

Quantity:	100 µL
Target:	OCT4 (POU5F1)
Binding Specificity:	AA 193-360
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This OCT4 antibody is un-conjugated
Application:	ELISA

Product Details

Purpose:	5-Oct Antibody
Immunogen:	Purified recombinant fragment of Oct4 (aa193-360) expressed in E. Coli.
Clone:	1D10H6
Isotype:	IgG1
Purification:	Ascitic fluid

Target Details

Target:	OCT4 (POU5F1)
Alternative Name:	Oct4 (POU5F1 Products)
Background:	Oct4: octamer-binding transcription factor-4 (Oct-4, Otf-4) and Oct-3/4, also known as

Target Details

	POU5F1(POU class 5 homeobox 1), octamerbinding transcription factor-3 (Oct-3, Otf-3), modulates embryonic stem (ES) cell populations by influencing lineage commitment. Entrez Protein NP_002692. Oct-3/4 sustains stem-cell selfrenewal 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.
Molecular Weight:	38.5 kDa
UniProt:	Q01860
Pathways:	Stem Cell Maintenance

Application Details

Application Notes:	ELISA: 1/10000
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	Ascitic fluid containing 0.03 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

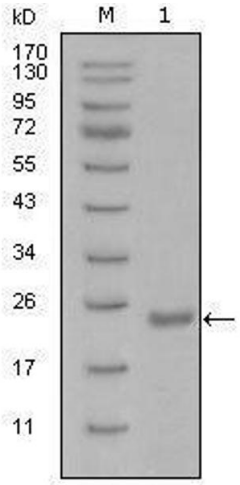
Publications

Product cited in:	Kerkis, Kerkis, Dozortsev, Stukart-Parsons, Gomes Massironi, Pereira, Caplan, Cerruti: "Isolation and characterization of a population of immature dental pulp stem cells expressing OCT-4 and other embryonic stem cell markers." in: **Cells, tissues, organs**, Vol. 184, Issue 3-4, pp. 105-16, (2007) (PubMed).

Publications

Atlasi, Mowla, Ziaee, Bahrami: "OCT-4, an embryonic stem cell marker, is highly expressed in bladder cancer." in: **International journal of cancer. Journal international du cancer**, Vol. 120, Issue 7, pp. 1598-602, (2007) (PubMed).

Images



Western Blotting

Image 1. Western blot analysis using Oct4 mouse mAb against recombinant Oct4 protein with Trx tag (1).