

Datasheet for ABIN969329

anti-OCT4 antibody

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Overview

Quantity:	100 µL
Target:	OCT4 (POU5F1)
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This OCT4 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunocytochemistry (ICC), Flow Cytometry (FACS)

Product Details

Immunogen:	Synthesized peptide derived from internal of human Oct4.
Clone:	7-00E-07
Isotype:	IgG1

Target Details

Target:	OCT4 (POU5F1)
Alternative Name:	Oct4 (POU5F1 Products)
Background:	<p>Description: 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.</p> <p>Alternative splicing, as well as usage of alternative translation initiation codons, results in</p>

Target Details

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.

Aliases: OCT3, OCT4, OTF3, OTF4, OTF-3, Oct-3, Oct-4, MGC22487, POU5F1

Molecular Weight: 45 kDa

Gene ID: 5460

HGNC: 5460

Pathways: [Stem Cell Maintenance](#)

Application Details

Application Notes: ELISA: 1:10000, WB: 1:500 - 1:2000, ICC: 1:200 - 1:1000, FCM: 1:200 - 1:400

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: 4°C, -20°C for long term storage

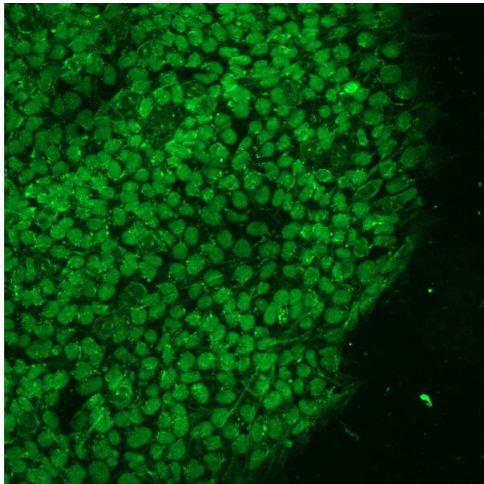
Publications

Product cited in: Dupasquier, Abdel-Samad, Glazer, Bastide, Jay, Joubert, Cavaillès, Blache, Quittau-Prévostel: "A new mechanism of SOX9 action to regulate PKCalpha expression in the intestine epithelium." in: **Journal of cell science**, Vol. 122, Issue Pt 13, pp. 2191-6, (2009) ([PubMed](#)).

Gordon, Tan, Benko, Fitzpatrick, Lyonnet, Farlie: "Long-range regulation at the SOX9 locus in development and disease." in: **Journal of medical genetics**, Vol. 46, Issue 10, pp. 649-56, (2009)

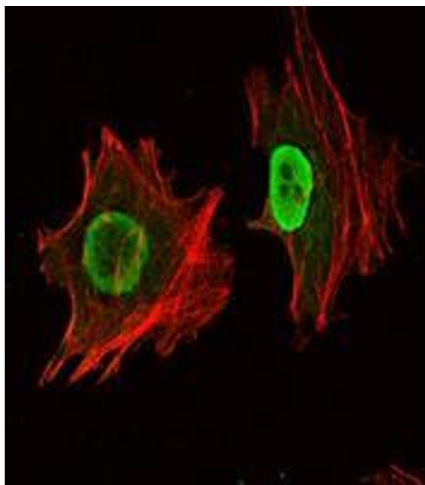
([PubMed](#)).

Images



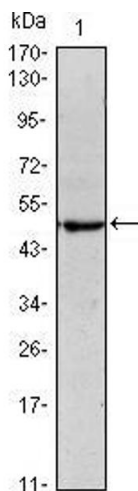
Immunocytochemistry

Image 1. Figure 2:



Immunofluorescence

Image 2. Immunofluorescence analysis of NTERA-2 cells using Oct4 mouse mAb (green). Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.



Western Blotting

Image 3. Western blot analysis using Oct4 mouse mAb against NTERA-2 (1) cell lysate.

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN969329.