

Datasheet for ABIN5557502
anti-OCT4 antibody



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2 Images

Overview

Quantity:	100 µL
Target:	OCT4 (POU5F1)
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Monoclonal
Conjugate:	This OCT4 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (Cultured Cells) (IF (cc))

Product Details

Immunogen:	Recombinant human Oct 4 protein, around 1-100aa.
Clone:	2D5
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Purification:	Purified by Protein A.

Target Details

Target:	OCT4 (POU5F1)
Alternative Name:	Oct 4 (POU5F1 Products)
Background:	Synonyms: MGC22487, Oct 3, Oct 4, Oct-3, Oct-4, OCT3, Oct4, Octamer binding protein 3, Octamer-binding protein 3, Octamer binding protein 4, Octamer binding transcription factor 3,

Target Details

Octamer-binding transcription factor 3, Octamer-4, POU domain transcription factor OCT4, OTF3, OTF4, OTF 3, OTF 4, OTF-3, POU class 5 homeobox 1, POU domain, class 5, transcription factor 1, POU domain class 5 transcription factor 1, POU5F1_HUMAN, POU type homeodomain containing DNA binding protein , POU5F1.

Background: Expression of the POU-domain transcription factor Octamer-4 (Oct-4) is widely regarded as a hallmark of pluripotent stem cells. The relationship of Oct-4 to pluripotent stem cells is indicated by its tightly restricted expression to undifferentiated pluripotent stem cells. Upon differentiation to somatic lineages, the expression of Oct-4 disappears rapidly. Unlike the majority of pluripotent stem cell markers, the biological role of Oct-4 has been well characterized. Studies performed in mice point to the critical role of Oct-4 in the establishment and/or maintenance of pluripotent stem cells in an uncommitted state.

Gene ID: 5460

UniProt: [Q01860](#)

Pathways: [Stem Cell Maintenance](#)

Application Details

Application Notes: WB 1:300-5000
IF(ICC) 1:50-200

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1 µg/µL

Buffer: Aqueous buffered solution containing 1xTBS (pH 7.4), 1 % BSA, 40 %Glycerol and 0.05 % Sodium Azide.

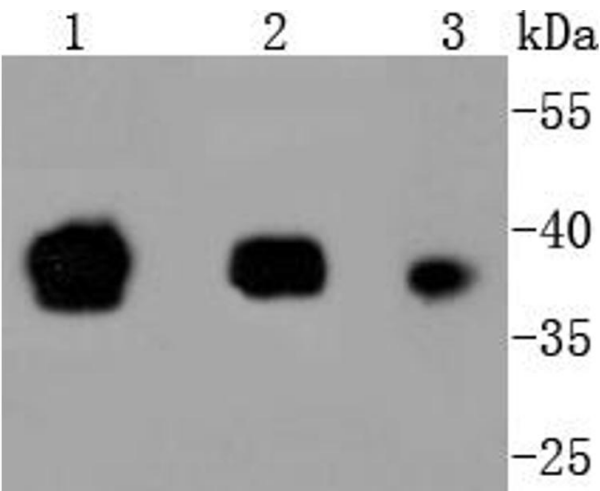
Preservative: ProClin

Precaution of Use: This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.

Storage: 4 °C,-20 °C

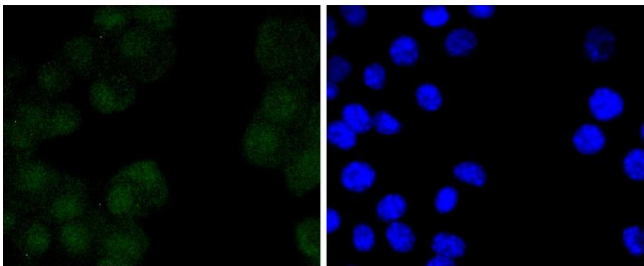
Storage Comment: Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Expiry Date: 12 months



Western Blotting

Image 1. Lane 1: F9, Lane 2: NCCIT, Lane 3: hES lysates probed with Oct 4 (2D5) Monoclonal Antibody at 1:1000 overnight at 4°C. Followed by a conjugated secondary antibody.



Immunofluorescence (Cultured Cells)

Image 2. N2A cells were stained with Oct 4 (2D5) Monoclonal Antibody at [1:200] incubated overnight at 4C, followed by secondary antibody incubation, DAPI staining of the nuclei and detection.