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Datasheet for ABIN728773
anti-OCT4 antibody (AA 201-300)

2 Images

Overview

Quantity:	100 µL
Target:	OCT4 (POU5F1)
Binding Specificity:	AA 201-300
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This OCT4 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Flow Cytometry (FACS), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human Oct-4
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Predicted Reactivity:	Dog,Cow,Pig
Purification:	Purified by Protein A.

Target Details

Target:	OCT4 (POU5F1)
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Target Details

Alternative Name: 4-Oct ([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, 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.

Molecular Weight: 41kDa

Gene ID: 5460

Pathways: [Stem Cell Maintenance](#)

Application Details

Application Notes: WB 1:300-5000
ELISA 1:500-1000
FCM 1:20-100
IHC-P 1:200-400
IHC-F 1:100-500
IF(IHC-P) 1:50-200
IF(IHC-F) 1:50-200
IF(ICC) 1:50-200

Restrictions: For Research Use only

Handling

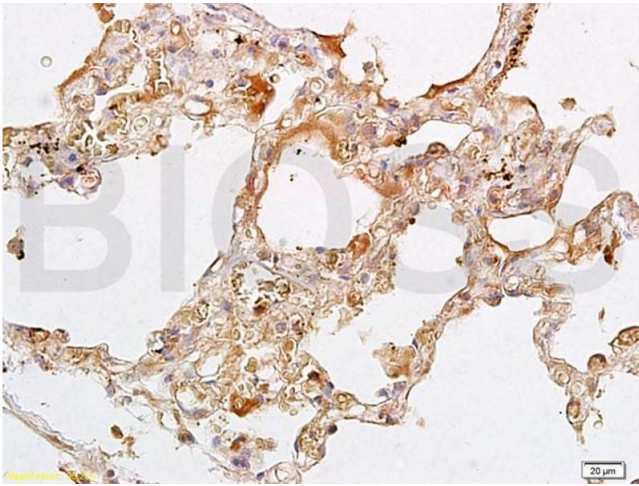
Format: Liquid

Concentration: 1 µg/µL

Handling

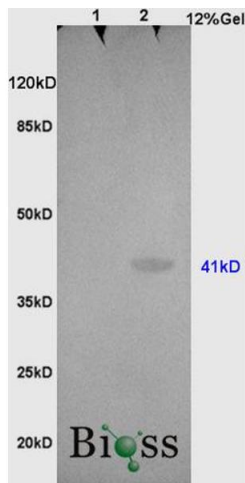
Buffer:	0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months

Images



Immunohistochemistry

Image 1. Formalin-fixed and paraffin embedded Human osteosarcoma labeled with Rabbit Anti-Oct-4/POU5F1 Polyclonal Antibody, Unconjugated (ABIN728773) 1:300 followed by conjugation to the secondary antibody and DAB staining.



SDS-PAGE

Image 2. L1 rat brain, L2 , human colon carcinoma lysates probed (ABIN728773) at 1:200 in 4 °C. Followed by conjugation to secondary antibody at 1:3000 90min in 37 °C. Predicted and observed band size: 41kDa.