



Rabbit anti OCT-4 Antibody

Alternate Names: POU5F1

Order Information

Description: Rabbit anti Oct-4
 Catalogue#: 601-450
 Lot#: See the label
 Size: 100 ug/200 ul
 Host: Rabbit
 Clone: N/A
 Application: ELISA, WB, IHC
 Reactivity: Hu, Ms, Rt

ANTIGEN PREPARATION

A synthetic peptide corresponding to intra domain of OCT-4 protein from human, mouse and rat origins.

BACKGROUND

Oct-3/4, a 39 kDa protein as a member of POU transcription factors, was identified as a DNA-binding protein that activates gene transcription via a cis-element containing an Octamer motif ATGCAAAT. It is expressed in embryonic stem (ES) cells and germ cells, and its expression is required to sustain cell self-renewal and pluripotency. Oct-3/4 is the most recognized marker for totipotent ES cells.

PURIFICATION

The Rabbit IgG is purified by Epitope Affinity Purification.

SPECIFICITY

This antibody recognizes ~39 kDa of OCT-4 protein from human, rat and mouse origins. It does not cross react with OCT-1, OCT-2. The other species are not tested

FORMULATION

This affinity purified antibody is supplied in sterile Phosphate-buffered saline (pH7.2) containing antibody stabilizer

STORAGE

The antibodies are stable for 12 months from date of receipt when stored at -20°C to -70°C. The antibodies can be stored at 2°C-8°C for three month without detectable loss of activity. Avoid repeated freezing-thawing cycles.

APPLICATIONS/SUGGESTED WORKING DILUTIONS

Western Blot	0.1-1 µg/ml
ELISA	0.01-0.1 µg/ml
Immunoprecipitation	2-5 µg/ml
IHC	Not tested
Flow cytometry	Not tested

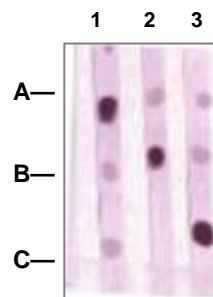
MOLECULAR WEIGHT:	39 kDa
POSITIVE CONTROL:	Mouse Kidney tissue lysate
CELLULAR LOCATION:	N/A

Optimal dilutions should be determined by researchers for the specific applications.

DATA ATTACHMENTS



Western Blot: The tissue lysate derived from mouse kidney was immunoprobed by Rabbit anti-OCT-4 (Cat#601-450) at 1:500. An immunoreactive band is observed around ~34 kDa (1). This band is abolished by pre-incubation with immunizing peptide (2).



Dot Blot:
 1 µg peptides was blotted onto NC membrane
 A: OCT-1
 B: OCT-2
 C: OCT-4
 Followed an immunoblotting at a 1:1000 dilution by:
 1: Rabbit anti-OCT-1(Cat#601-440)
 2: Rabbit anti-OCT-2(Cat#500-4304)
 3: Rabbit anti-OCT-4 (601-450)

REFERENCES:

Zhang ZH, et al. Post-translational modification of POU domain transcription factor Oct-4 by SUMO-1. The FASEB Journal. 2007;21:3042-3051.

FOR RESEARCH USE ONLY.