

# Oct-4 Antibody

Rabbit Polyclonal

Antigen Affinity Purified

Protein ID NP\_038661.1

Catalog No. A304-591A

GeneID 18999

Lot No. A304-591A-1



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<b>APPLICATIONS</b>	WB, IP
<b>SPECIES REACTIVITY</b>	Mouse
<b>PRESUMED REACTIVITY</b>	Based on 100% sequence identity, this antibody is predicted to react with Human, Bovine, Pig and Monkey
<b>AMOUNT</b>	100 $\mu$ l
<b>CONCENTRATION</b>	1000 $\mu$ g/ml
<b>STORAGE/SHELF LIFE</b>	2 - 8° C / 1 year from date of receipt
<b>PHYSICAL STATE</b>	Liquid
<b>BUFFER</b>	Tris-citrate/phosphate buffer, pH 7 to 8 containing 0.09% Sodium Azide
<b>ISOTYPE</b>	IgG
<b>ORIGIN</b>	USA
<b>PRODUCTION PROCEDURES</b>	Antibody was affinity purified using an epitope specific to Oct-4 immobilized on solid support.

The epitope recognized by A304-591A maps to a region between residue 1 to 50 of human Octamer-Binding Protein 4 using the numbering given in entry NP\_038661.1 (GeneID 18999).

Antibody concentration was determined by extinction coefficient: absorbance at 280 nm of 1.4 equals 1.0 mg of IgG.

**APPLICATIONS** Centrifuge tube to remove product from lid. Optimal working dilutions should be determined experimentally by the investigator. Prepare working dilution immediately before use.

Western Blot 1:1,000 – 1:5,000

Immunoprecipitation 2 – 10  $\mu$ g/mg lysate

**APPLICATION NOTES** Western blot of immunoprecipitates performed using Normal Pig Serum (Cat. No. S100-020), Goat anti-Rabbit Light Chain HRP Conjugate (Cat. No. A120-113P) and 4-20% SDS-PAGE (link to IP-western blot protocol in Additional Info section below).

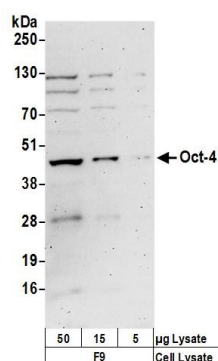
Western blot of lysates performed using standard western blot reagents and 4-20% SDS-PAGE.

**ADDITIONAL INFO** <https://www.bethyl.com/product/A304-591A>

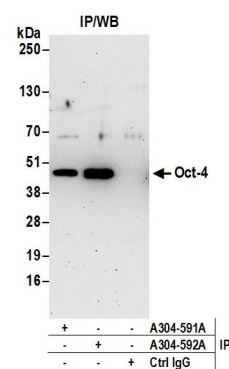
Use the link above to view SDS, a current list of citations, and other product specific information.

IP-western blot protocol: [https://www.bethyl.com/content/protocol\\_IP\\_WB](https://www.bethyl.com/content/protocol_IP_WB)

This document certifies that this product has met all of the quality control standards defined by Bethyl Laboratories, Inc.  
Eric McIntush, PhD | Chief Scientific Officer Date: June 21, 2019



**Detection of mouse Oct-4 by western blot.** *Samples:* Whole cell lysate (5, 15 and 50 µg) from F9 cells prepared using NETN lysis buffer. *Antibodies:* Affinity purified rabbit anti-Oct-4 antibody A304-591A (lot A304-591A-1) used for WB at 0.4 µg/ml. *Detection:* Chemiluminescence with an exposure time of 3 minutes.



**Detection of mouse Oct-4 by western blot of immunoprecipitates.** *Samples:* Whole cell lysate (0.5 or 1.0 mg per IP reaction; 20% of IP loaded) from F9 cells prepared using NETN lysis buffer. *Antibodies:* Affinity purified rabbit anti-Oct-4 antibody A304-591A (lot A304-591A-1) used for IP at 6 µg per reaction. Oct-4 was also immunoprecipitated by rabbit anti-Oct-4 antibody A304-592A. For blotting immunoprecipitated Oct-4, A304-591A was used at 1 µg/ml. *Detection:* Chemiluminescence with an exposure time of 3 minutes.