

# Product Datasheet

## OCT4 Antibody - BSA Free

### NBP2-59164

Unit Size: 50 ug

Store at -20C. Avoid freeze-thaw cycles.

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**NBP2-59164**

OCT4 Antibody - BSA Free

**Product Information**

<b>Unit Size</b>	50 ug
<b>Concentration</b>	Please see the vial label for concentration. If unlisted please contact technical services.
<b>Storage</b>	Store at -20C. Avoid freeze-thaw cycles.
<b>Clonality</b>	Polyclonal
<b>Preservative</b>	0.05% Sodium Azide and 0.05% ProClin 300
<b>Isotype</b>	IgG
<b>Purity</b>	Peptide affinity purified
<b>Buffer</b>	PBS

**Product Description**

<b>Description</b>	Novus Biologicals Rabbit OCT4 Antibody - BSA Free (NBP2-59164) is a polyclonal antibody validated for use in WB, ELISA and ChIP. All Novus Biologicals antibodies are covered by our 100% guarantee.
<b>Host</b>	Rabbit
<b>Gene ID</b>	5460
<b>Gene Symbol</b>	POU5F1
<b>Species</b>	Human
<b>Immunogen</b>	The exact immunogen is proprietary information.

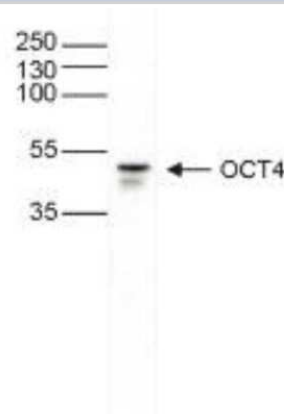
**Product Application Details**

<b>Applications</b>	Western Blot, ELISA, Chromatin Immunoprecipitation (ChIP), Chromatin Immunoprecipitation Sequencing
<b>Recommended Dilutions</b>	Western Blot 1:1000, ELISA 1:1000-1:10000, Chromatin Immunoprecipitation (ChIP) 5 ug/IP, Chromatin Immunoprecipitation Sequencing

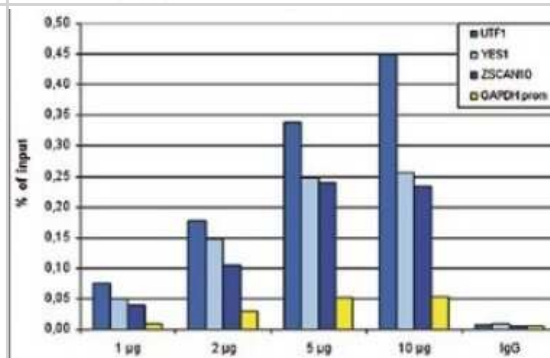


## Images

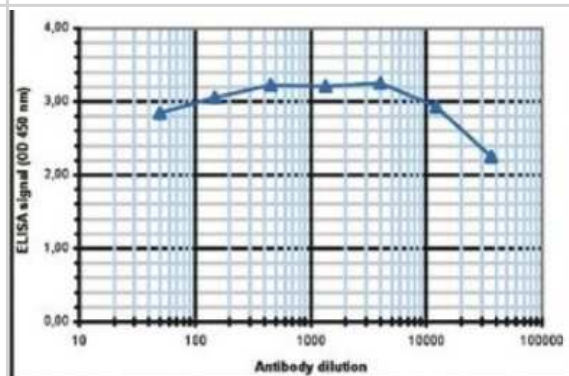
**Western Blot: OCT4 Antibody [NBP2-59164]** - Nuclear extracts (15 ug) from human embryonic stem cells were analysed by Western blot using the antibody against OCT4 diluted 1:1,000 in TBS- Tween containing 5% skimmed milk. The position of the protein of interest is indicated on the right; the marker (kDa) is shown on the left.



**Chromatin Immunoprecipitation: OCT4 Antibody [NBP2-59164]** - ChIP assays were performed using E14Tg2a mouse embryonic stem cells, the antibody against OCT4 and optimized PCR primer sets for qPCR. ChIP was performed using sheared chromatin from 4 million cells. A titration of the antibody consisting of 1, 2, 5 and 10 ug per ChIP experiment was analysed. IgG (2 ug/IP) was used as negative IP control. Quantitative PCR was performed with primers for known OCT4 targets UTF1, YES1 and ZSCAN10, used as positive control targets, and for the promoter of the GAPDH gene, used as a negative control. Figure shows the recovery, expressed as a % of input (the relative amount of immunoprecipitated DNA compared to input DNA after qPCR analysis).



**ELISA: OCT4 Antibody [NBP2-59164]** - To determine the titer of the antibody, an ELISA was performed using a serial dilution of the antibody directed against OCT4. The plates were coated with the peptides used for immunization of the rabbit. By plotting the absorbance against the antibody dilution, the titer of the antibody was estimated to be 1:100,000.





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### **Products Related to NBP2-59164**

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HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
NB100-2379PEP	OCT4 Antibody Blocking Peptide

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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