

**AP00249PU-N****Polyclonal Antibody to OCT3/4 - Aff - Purified**

<b>Alternate names:</b>	OCT3, OCT4, OTF3, Oct-3, Oct-4, Octamer-binding transcription factor 3, POU domain, POU5F1, class 5, transcription factor 1
<b>Quantity:</b>	0.1 mg
<b>Concentration:</b>	0.5 mg/ml
<b>Background:</b>	Members of Oct family of transcription factors specifically interact with Octamer motif ATGCAAAT, a regulatory element important for tissue- and cell-specific transcription as well as for transcription of a number of housekeeping genes. All of the members of the Oct family contain two highly conserved domains which are separated by 14-26 variable amino acids. These include the POU homeodomain and the POU-specific domain. Both are required for DNA binding and are involved in protein-protein interactions. Evidences indicate that regulation of Oct family transcription factors occurs at the level of phosphorylation.
<b>Uniprot ID:</b>	<a href="#">Q01860</a>
<b>NCBI:</b>	<a href="#">NP_002692.2</a>
<b>GenelD:</b>	<a href="#">5460</a>
<b>Host:</b>	Rabbit
<b>Immunogen:</b>	Synthetic peptide mapping to the N-terminus of Mouse Oct-4.
<b>Format:</b>	<b>State:</b> Liquid purified Ig fraction <b>Purification:</b> Affinity Chromatography <b>Buffer System:</b> PBS, pH 7.2 <b>Preservatives:</b> 0.01% Thimerosal <b>Stabilizers:</b> 30% Glycerol, 0.5% BSA
<b>Applications:</b>	<b>Western blot:</b> 0.5-4 µg/ml. <b>Immunoprecipitation:</b> 20 µg/ml. <b>Immunohistochemistry:</b> 20 µg/ml. <b>Positive Control:</b> Rat kidney tissue lysate. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Specificity:</b>	The antibody reacts with 45 kDa Oct-4 (also designated Oct-3A) and in a less extent 33 kDa Oct-3B <b>Species:</b> Human, Mouse, Rat, Bovine and Pig. Other species not tested.
<b>Storage:</b>	Upon receipt, store undiluted (in aliquots) at -20°C. Avoid repeated freezing and thawing. Shelf life: one year from despatch.

**Pictures:**

Western blot analysis of Oct-3/4 in rat kidney tissue lysate using AP00249PU-N.

