

Oct-4 Polyclonal Antibody

CATALOG #:	3576-100
AMOUNT:	100 µg
LOT #:	_____
HOST:	Rabbit
IMMUNOGEN:	Synthetic peptide mapping to the N-terminus of mouse Oct-4 (ID# BV-228)
SPECIES REACTIVITY:	human, mouse, rat, bovine, pig

FORMULATION:

100 µg (0.5 mg/ml) affinity purified rabbit anti-Oct-3/4 polyclonal antibody in phosphate buffered saline (PBS), pH 7.2, containing 30% glycerol, 0.5% BSA, 0.01% thimerosal.

STORAGE CONDITIONS:

Store at -20°C. For long-term storage, aliquot and freeze at -70°C. Avoid repeated freeze/thaw cycles.

BACKGROUND:

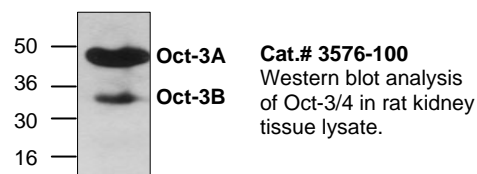
Members of Oct family of transcription factors specifically interact with Octamer motif ATGCAAAT, a regulatory element important for tissue- and cell-specific transcription as well as for transcription of a number of housekeeping genes. All of the members of the Oct family contain two highly conserved 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.

APPLICATION AND USAGE:

The antibody can be used for Western blotting (0.5-4 µg/ml), immunoprecipitation (20 µg/ml) and immunohistochemistry (20 µg/ml). However, the optimal conditions should be determined individually.

SPECIFICITY:

The antibody reacts with 45 kDa Oct-4 (also designated Oct-3A) and in a less extent 33 kDa Oct-3B from human, mouse, and rat samples. Rat kidney tissue lysate can be used as a positive control.



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