

## Oct-4 Polyclonal Antibody

**CATALOG No.:** 3576-30T 30 µg (Trial size)  
3576-100 100 µg

**CONCENTRATION:** 0.5 mg/ml

**HOST:** Rabbit

**IMMUNOGEN:** Synthetic peptide mapping to the N-terminus of mouse Oct-4

**INTERNAL ID:** BV-228

**SPECIES REACTIVITY:** Human, Mouse, Rat, Bovine, Pig

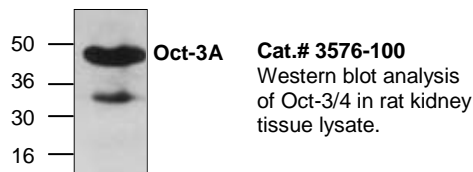
**FORMULATION:**  
0.5 mg/ml affinity purified rabbit anti-Oct-3/4 polyclonal antibody in phosphate buffered saline (PBS) pH 7.2, containing 30% glycerol, 0.5% BSA, 0.03% ProClin®.

**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.



### RELATED PRODUCTS:

- Apoptosis Detection Kits & Reagents
  - Annexin V Kits & Bulk Reagents
  - Caspase Assay Kits & Reagents
  - Mitochondrial Apoptosis Kits & Reagents
  - Nuclear Apoptosis Kits & Reagents
  - Apoptosis Inducers and Set
  - Apoptosis siRNA Vectors
- Cell Fractionation System
  - Mitochondria/Cytosol Fractionation Kit
  - Nuclear/Cytosol Fractionation Kit
  - Membrane Protein Extraction Kit
  - Cytosol/Particulate Rapid Separation Kit
  - Mammalian Cell Extraction Kit
  - FractionPREP Fractionation System
- Cell Proliferation & Senescence
  - Quick Cell Proliferation Assay Kit
  - Senescence Detection Kit
  - High Throughput Apoptosis/Cell Viability Assay Kits
  - LDH-Cytotoxicity Assay Kit
  - Bioluminescence Cytotoxicity Assay Kit
  - Live/Dead Cell Staining Kit
- Cell Damage & Repair
  - HDAC Fluorometric & Colorimetric Assays & Drug Discovery Kits
  - HAT Colorimetric Assay Kit & Reagents
  - DNA Damage Quantification Kit
  - Glutathione & Nitric Oxide Fluorometric & Colorimetric Assay Kits
- Signal Transduction
  - cAMP & cGMP Assay Kits
  - Akt & JNK Activity Assay Kits
  - Beta-Secretase Activity Assay Kit
- Adipocyte & Lipid Transfer
  - Recombinant Adiponectin, Survivin, & Leptin
  - CETP Activity Assay & Drug Discovery Kits
  - PLTP Activity Assay & Drug Discovery Kits
  - Total Cholesterol Quantification Kit
- Molecular Biology & Reporter Assays
  - siRNA Vectors
  - Cloning Insert Quick Screening Kit
  - Mitochondrial & Genomic DNA Isolation Kits
  - 5 Minutes DNA Ligation Kit
  - 20 Minutes Gel Staining/Destaining Kit
  - β-Galactosidase Staining Kit & Luciferase Reporter Assay Kit
- Growth Factors and Cytokines
- Monoclonal and Polyclonal Antibodies

**FOR RESEARCH USE ONLY! Not to be used on humans.**