

**Oct4 Antibody**  
**Rabbit mAb**  
**Catalog # AP90782****Specification**

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**Oct4 Antibody - Product Information**

Application **WB, IHC, ICC, IP**  
Primary Accession **[Q01860](#)**  
Clonality **Monoclonal**

**Other Names**

Octamer binding protein 3; Octamer binding protein 4; OCT3; OCT4; OTF3; OTF4; OTF-3; Oct-3; Oct-4; POU5F1;

Isotype **Rabbit IgG**  
Host **Rabbit**  
Calculated MW **38571 Da**

**Oct4 Antibody - Additional Information**

Dilution **WB~~1:1000**  
**IHC~~1:100~500**  
**ICC~~N/A**  
**IP~~N/A**

Purification **Affinity-chromatography**  
Immunogen **A synthesized peptide derived from human Oct4**

Description **Oct-4 is a transcription factor highly expressed in undifferentiated embryonic stem cells and embryonic germ cells. Forms a trimeric complex with SOX2 on DNA and controls the expression of a number of genes involved in embryonic development such as YES1, FGF4, UTF1 and ZFP206. Critical for early embryogenesis and for embryonic stem cell pluripotency.**

Storage Condition and Buffer **Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.**

**Oct4 Antibody - Protein Information**

**Name** POU5F1

**Synonyms** OCT3, OCT4, OTF3

**Function**

Transcription factor that binds to the octamer motif (5'- ATTTGCAT-3'). Forms a trimeric complex with SOX2 or SOX15 on DNA and controls the expression of a number of genes involved in embryonic development such as YES1, FGF4, UTF1 and ZFP206. Critical for early embryogenesis and for embryonic stem cell pluripotency.

#### Cellular Location

Cytoplasm. Nucleus. Note=Expressed in a diffuse and slightly punctuate pattern. Colocalizes with MAPK8 and MAPK9 in the nucleus. {ECO:0000250|UniProtKB:P20263, ECO:0000269|PubMed:18191611, ECO:0000269|PubMed:19274063, ECO:0000269|PubMed:23024368}

#### Tissue Location

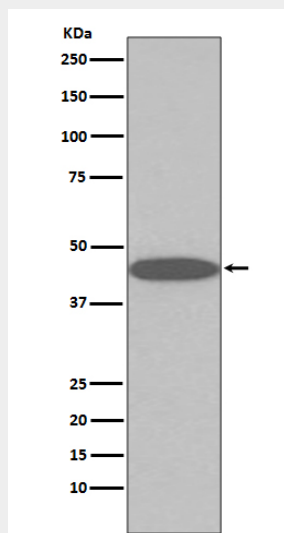
Expressed in developing brain. Highest levels found in specific cell layers of the cortex, the olfactory bulb, the hippocampus and the cerebellum. Low levels of expression in adult tissues.

### Oct4 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### Oct4 Antibody - Images



Western blot analysis of Oct4 expression in NCCIT cell lysate.