

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

## Specification

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### Oct4 Antibody - Product Information

Application	WB, IHC, ICC, IP
Primary Accession	<a href="#">Q01860</a>
Clonality	Monoclonal
<b>Other Names</b>	
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

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}

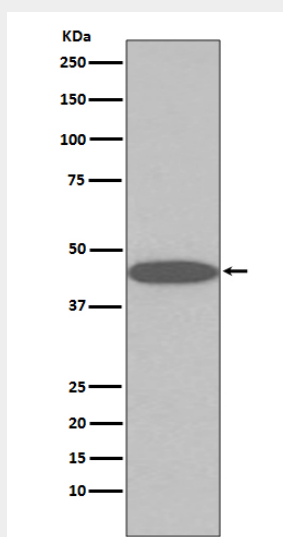
**Tissue Location**

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.