

**Anti-Oct4 POU5F1 Rabbit Monoclonal Antibody**  
Catalog # ABO13439

**Specification**

**Anti-Oct4 POU5F1 Rabbit Monoclonal Antibody - Product Information**

|                   |                        |
|-------------------|------------------------|
| Application       | WB, IHC, IF, ICC, IP   |
| Primary Accession | <a href="#">Q01860</a> |
| Host              | Rabbit                 |
| Isotype           | Rabbit IgG             |
| Reactivity        | Human, Mouse           |
| Clonality         | Monoclonal             |
| Format            | Liquid                 |

**Description**

Anti-Oct4 POU5F1 Rabbit Monoclonal Antibody . Tested in WB, IHC, ICC/IF, IP applications. This antibody reacts with Human, Mouse.

**Anti-Oct4 POU5F1 Rabbit Monoclonal Antibody - Additional Information**

**Gene ID** 5460

**Other Names**

POU domain, class 5, transcription factor 1, Octamer-binding protein 3, Oct-3, Octamer-binding protein 4, Oct-4, Octamer-binding transcription factor 3, OTF-3, POU5F1, OCT3, OCT4, OTF3

**Calculated MW**

38571 MW KDa

**Application Details**

WB 1:500-1:1000<br>IHC 1:50-1:200<br>ICC/IF 1:50-1:200<br>IP 1:50

**Subcellular Localization**

Cytoplasm. Nucleus. Expressed in a diffuse and slightly punctuate pattern.

**Tissue Specificity**

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..

**Contents**

Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.

**Immunogen**

A synthesized peptide derived from human Oct4

**Purification**

Affinity-chromatography

**Storage**

**Store at -20°C for one year. For short term storage and frequent use, store at 4°C for**

up to one month. Avoid repeated  
freeze-thaw cycles.

## Anti-Oct4 POU5F1 Rabbit Monoclonal 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

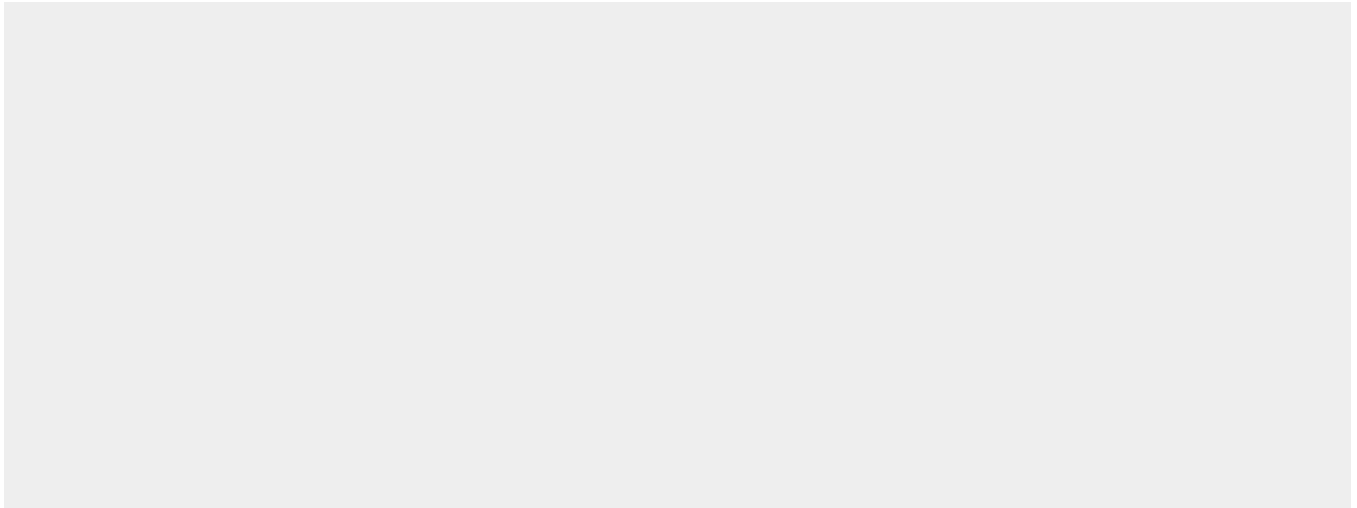
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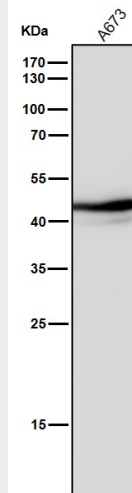
## Anti-Oct4 POU5F1 Rabbit Monoclonal Antibody - Protocols

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

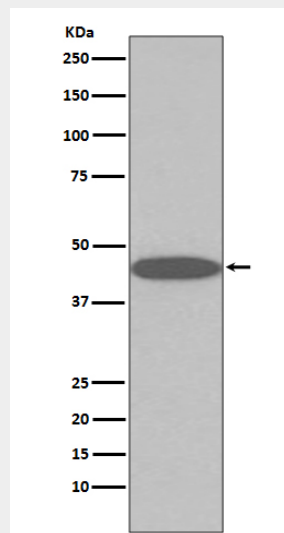
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## Anti-Oct4 POU5F1 Rabbit Monoclonal Antibody - Images

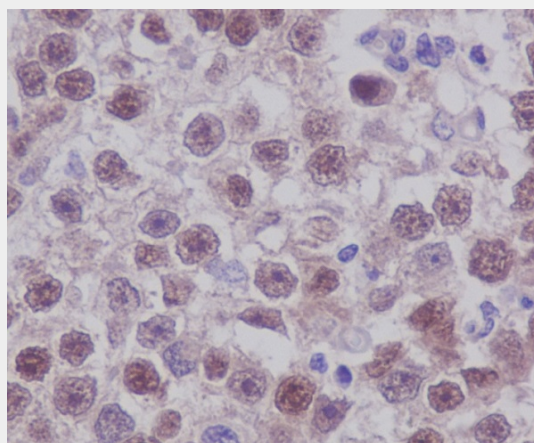




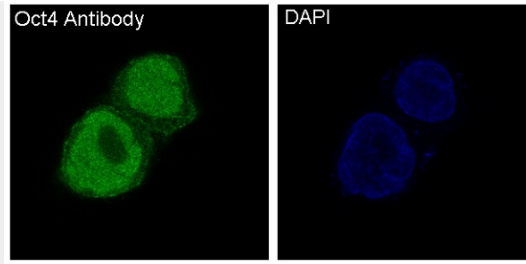
All lanes use the Antibody at 1:2k dilution for 1 hour at room temperature.



Western blot analysis of Oct4 expression in NCCIT cell lysate.



Immunohistochemical analysis of paraffin-embedded human seminoma, using Oct4 Antibody.



Immunofluorescent analysis of NCCIT cells, using Oct4 Antibody.