

**Oct3/4**  
**Rabbit Monoclonal antibody(Mab)**  
**Catalog # AD80302**

## Specification

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### Oct3/4 - Product info

Application	IHC-P, IHC
Primary Accession	<a href="#">Q01860</a>
Reactivity	Human
Host	Rabbit
Clonality	Monoclonal
Calculated MW	38571

### Oct3/4 - Additional info

Gene ID	5460
Gene Name	POU5F1

#### 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

#### Dilution

IHC-P~~Ready-to-use  
IHC~~Ready-to-use

#### Storage

Maintain refrigerated at 2-8°C

#### Precautions

**Oct3/4 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.**

### Oct3/4 - Protein Information

**Name** POU5F1

**Synonyms**  
**Function**

**OCT3, OCT4, OTF3**

Transcription factor that binds to the octamer motif (5'-ATTTGCAT-3'). 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.

**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,

Tissue Location

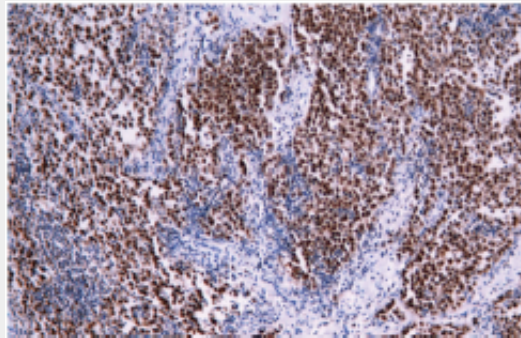
**ECO:0000269|PubMed:18191611,  
ECO:0000269|PubMed:19274063,  
ECO:0000269|PubMed:23024368}**  
**Expressed in developing brain. Highest  
levels found in specific cell layers of the  
cortex, the olfactory bulb, the  
hippocampus and the cerebellum. Low  
levels of expression in adult tissues.**

### Oct3/4 - Protocols

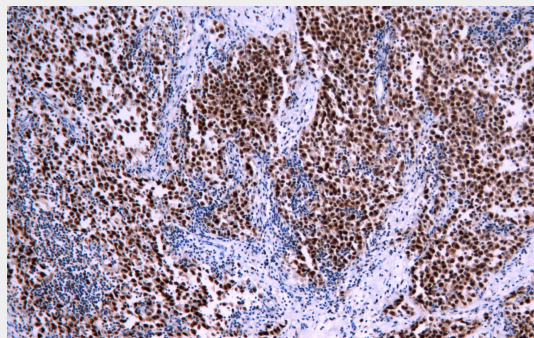
Provided below are standard protocols that you may find useful for product applications.

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

### Oct3/4 - Images



Seminoma



Immunohistochemical analysis of paraffin-embedded seminoma tissue using AD80302 performed on the Abcarta® FAIP-30 Fully automated IHC platform. Tissue was fixed with formaldehyde at room temperature, antigen retrieval was by heat mediation with a Citrate buffer (pH6.0). Samples were incubated with primary antibody (Ready-to-use) for 15 min at room temperature. AmpSee™ Detection Systems □ Abcepta:AR005 □ was used as the secondary antibody.