



### Oct3/4

Rabbit Monoclonal antibody(Mab)
Catalog # AD80302

### **Specification**

### Oct3/4 - Product info

Application IHC-P
Primary Accession Q01860
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

**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 OCT3, OCT4, OTF3

Function 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,

ECO:0000269|PubMed:18191611,



Tissue Location

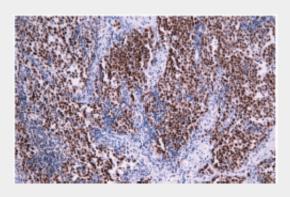
ECO:0000269|PubMed:19274063, ECO:0000269|PubMed:23024368} Expressed in developing brain. Highest levels found in specific cell layers of the cortex, the olfactory bulb, the hippocampus and the cerebellum. Low levels of expression in adult tissues.

### Oct3/4 - Protocols

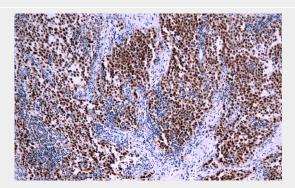
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- <u>Immunoprecipitation</u>
- Flow Cytomety
- 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. AmpSeeTM Detection Systems Abcepta: AR005 was used as the secondary antibody.