

# Oct-3/4 Polyclonal Antibody

Catalog # AP71416

### **Product Information**

**Application** WB, IHC-P **Primary Accession** Q01860

**Reactivity** Human, Mouse, Rat

HostRabbitClonalityPolyclonalCalculated MW38571

#### **Additional Information**

**Gene ID** 5460

Other Names POU5F1; OCT3; OCT4; OTF3; 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

Dilution WB~~Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300.

ELISA: 1/10000. Not yet tested in other applications. IHC-P~~N/A

Format Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium

azide.

Storage Conditions -20°C

#### **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

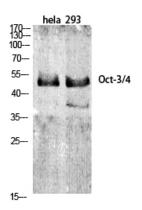
the cortex, the olfactory bulb, the hippocampus and the cerebellum. Low

levels of expression in adult tissues.

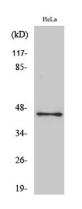
# **Background**

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.

## **Images**



Western Blot analysis of various cells using Oct-3/4 Polyclonal Antibody diluted at 1 : 1000



Western Blot analysis of HeLa cells using Oct-3/4 Polyclonal Antibody diluted at 1: 1000

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.