

### POU5F1 Antibody (Center)

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP21116a

### **Specification**

## POU5F1 Antibody (Center) - Product Information

Application WB,E
Primary Accession Q01860
Reactivity Human
Host Rabbit
Clonality Polyclonal
Isotype Rabbit IgG
Calculated MW 38571

## POU5F1 Antibody (Center) - 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

# **Target/Specificity**

This POU5F1 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 123-157 amino acids from the Central region of human POU5F1.

#### **Dilution**

WB~~1:1000

E~~Use at an assay dependent concentration.

### **Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

### Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

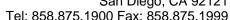
# **Precautions**

POU5F1 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

## POU5F1 Antibody (Center) - 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**

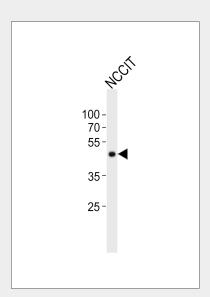
Expressed in developing brain. Highest levels found in specific cell layers of the cortex, the olfactory bulb, the hippocampus and the cerebellum. Low levels of expression in adult tissues.

## POU5F1 Antibody (Center) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

## POU5F1 Antibody (Center) - Images

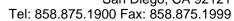


Western blot analysis of lysate from NCCIT cell line, using POU5F1 Antibody (Center)(Cat. #AP21116a). AP21116a was diluted at 1:1000. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody. Lysate at 20ug.

## POU5F1 Antibody (Center) - 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.

## POU5F1 Antibody (Center) - References

Takeda J., et al. Nucleic Acids Res. 20:4613-4620(1992). Stuart P.E., et al. Tissue Antigens 76:387-397(2010). Shiina T., et al. Genetics 173:1555-1570(2006). Shiina S., et al. Submitted (SEP-1999) to the EMBL/GenBank/DDBJ databases. Mungall A.J., et al. Nature 425:805-811(2003).