

# POU5F1 Antibody (Center)

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP21116a

#### **Product Information**

**Application** WB, E **Primary Accession** Q01860 Reactivity Human Host Rabbit Clonality Polyclonal Isotype Rabbit IgG **Clone Names** RB51468 **Calculated MW** 38571

## **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.

#### **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.

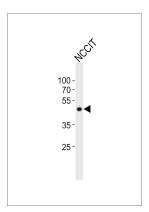
## **Background**

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.

## 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).

# **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.

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