

**POU5F1 Antibody (C-term)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP21115a**

**Specification**

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**POU5F1 Antibody (C-term) - Product Information**

Application	WB,E
Primary Accession	<a href="#">Q01860</a>
Other Accession	<a href="#">Q06416</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	38571

**POU5F1 Antibody (C-term) - 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 291-324 amino acids from the C-terminal 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 (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**POU5F1 Antibody (C-term) - 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**

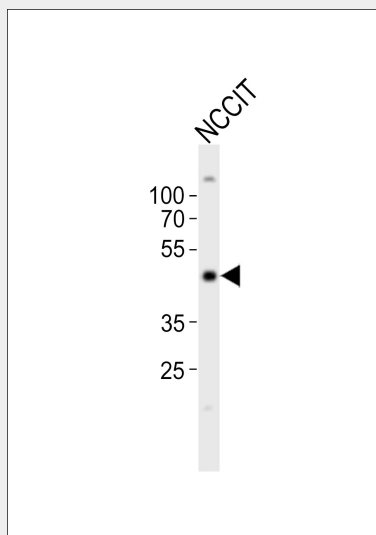
Expressed in developing brain. Highest levels found in specific cell layers of the cortex, the olfactory bulb, the hippocampus and the cerebellum. Low levels of expression in adult tissues.

### **POU5F1 Antibody (C-term) - 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](#)

### **POU5F1 Antibody (C-term) - Images**



Western blot analysis of lysate from NCCIT cell line, using POU5F1 Antibody (C-term)(Cat. #AP21115a). AP21115a 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 (C-term) - Background**

Transcription factor that binds to the octamer motif (5'-ATTGTCAT-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 (C-term) - 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).