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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

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}

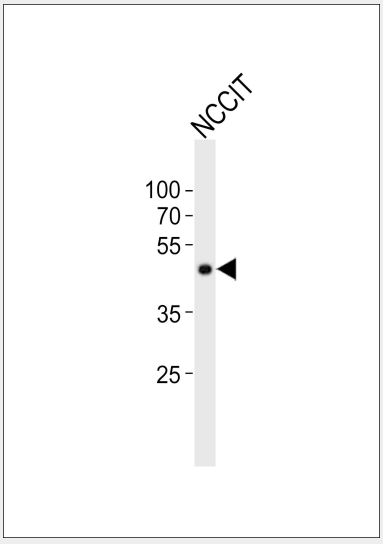
Tissue Location
Expressed in developing brain. Highest levels found in specific cell layers of the cortex, the olfactory bulb, the hippocampus and the cerebellum. Low levels of expression in adult tissues.

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).