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POU3F2 / BRN2 / OCT7 Antibody (internal region, near N-Term)

Peptide-affinity purified goat antibody
Catalog # AF3199a

Specification

POU3F2 / BRN2 / OCT7 Antibody (internal region, near N-Term) - Product Information

Application	**WB**
Primary Accession	P20265
Other Accession	NP_005595.2, 5454, 18992 (mouse), 29588 (rat)
Reactivity	**Human, Mouse, Rat**
Predicted	**Pig, Cow**
Host	**Goat**
Clonality	**Polyclonal**
Concentration	**0.5 mg/ml**
Isotype	**IgG**
Calculated MW	**46893**

POU3F2 / BRN2 / OCT7 Antibody (internal region, near N-Term) - Additional Information

Gene ID 5454

Other Names
POU domain, class 3, transcription factor 2, Brain-specific homeobox/POU domain protein 2, Brain-2, Brn-2, Nervous system-specific octamer-binding transcription factor N-Oct-3, Octamer-binding protein 7, Oct-7, Octamer-binding transcription factor 7, OTF-7, POU3F2, BRN2, OCT7, OTF7

Format
0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
POU3F2 / BRN2 / OCT7 Antibody (internal region, near N-Term) is for research use only and not for use in diagnostic or therapeutic procedures.

POU3F2 / BRN2 / OCT7 Antibody (internal region, near N-Term) - Protein Information

Name POU3F2

Synonyms BRN2, OCT7, OTF7

Function
Transcription factor that plays a key role in neuronal differentiation (By similarity). Binds

preferentially to the recognition sequence which consists of two distinct half-sites, ('GCAT') and ('TAAT'), separated by a non-conserved spacer region of 0, 2, or 3 nucleotides (By similarity). Acts as a transcriptional activator when binding cooperatively with SOX4, SOX11, or SOX12 to gene promoters (By similarity). The combination of three transcription factors, ASCL1, POU3F2/BRN2 and MYT1L, is sufficient to reprogram fibroblasts and other somatic cells into induced neuronal (iN) cells in vitro (By similarity). Acts downstream of ASCL1, accessing chromatin that has been opened by ASCL1, and promotes transcription of neuronal genes (By similarity).

Cellular Location
Nucleus.

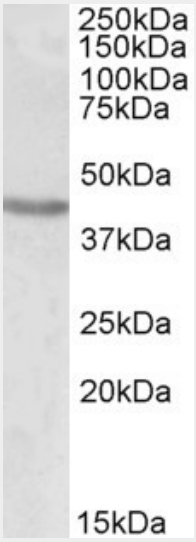
Tissue Location
Expressed specifically in the neuroectodermal cell lineage

POU3F2 / BRN2 / OCT7 Antibody (internal region, near N-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 Cytomety
- Cell Culture

POU3F2 / BRN2 / OCT7 Antibody (internal region, near N-Term) - Images



AF3199a (0.1 µg/ml) staining of Mouse Brain lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

POU3F2 / BRN2 / OCT7 Antibody (internal region, near N-Term) - References

Expression and purification of human full-length N Oct-3, a transcription factor involved in melanoma growth. Cabos-Siguier B, Steunou AL, Joseph G, Alazard R, Ducoux-Petit M, Nieto L, Monsarrat B, Erard M, Clottes E, Protein expression and purification 2009 Mar 64 (1): 39-46. PMID:

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