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POU3F2 antibody - C-terminal region

Rabbit Polyclonal Antibody
Catalog # AI16252

Product Information

Application	WB
Primary Accession	P20265
Other Accession	NM_005604, NP_005595
Reactivity	Human, Rat, Pig, Bovine
Predicted	Human, Rat, Pig, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	46893

Additional Information

Gene ID	5454
Alias Symbol	BRN2, OCT7, OTF7, OTF-7, POUF3, brn-2, oct-7
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	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Reconstitution & Storage	Add 50 ul of distilled water. Final anti-POU3F2 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.
Precautions	POU3F2 antibody - C-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

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

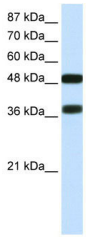
Background

Transcription factor that binds preferentially to the recognition sequence which consists of two distinct half-sites, ('GCAT') and ('TAAT'), separated by a nonconserved spacer region of 0, 2, or 3 nucleotides. Positively regulates the genes under the control of corticotropin-releasing hormone (CRH) and CRH II promoters (By similarity).

References

Schreiber E.,et al.Nucleic Acids Res. 21:253-258(1993).
Angus J.,et al.Oncogene 11:691-700(1995).
Mungall A.J.,et al.Nature 425:805-811(2003).
He X.,et al.Nature 340:35-42(1989).
Waragai M.,et al.Hum. Mol. Genet. 8:977-987(1999).

Images



WB Suggested Anti-POU3F2 Antibody Titration: 0.2-1 µg/ml
Positive Control: Transfected 293T

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