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POU3F2 Recombinant Rabbit mAb

Catalog # AP98678

Product Information

Application	WB, IHC-P, IHC-F, IF, IP, E
Primary Accession	P20265
Other Accession	P20265
Reactivity	Rat, Human, Mouse
Host	Rabbit
Clonality	Recombinant
Calculated MW	46893
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the POU transcription factor family. Class-3 subfamily. Contains 1 homeobox DNA-binding domain. Contains 1 POU-specific domain.
SUBUNIT	Interacts with PQBP1.
Background Descriptions	This gene encodes a member of the POU-III class of neural transcription factors. The encoded protein is involved in neuronal differentiation and enhances the activation of corticotropin-releasing hormone regulated genes. Overexpression of this protein is associated with an increase in the proliferation of melanoma cells. [provided by RefSeq, Mar 2012],

Additional Information

Gene ID	5454
Other Names	BRN2; N-Oct3; OCT7; OTF-7; OTF7; POUF3; brn-2; oct-7; 9430075J19Rik; A230098E07Rik; PO3F2_HUMAN; POU3F2; 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); PO3F2_MOUSE; PO3F2_RAT; POU class 3 homeobox 2; POU domain class 3, transcription factor 2; 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)
Dilution	IHC-P=1:50-200,IHC-F=1:50-200,WB=1:500-2000,IF=1:50-200,ELISA=1:5000-10000,IP=1:50-200
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

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

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