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POU3F2 Antibody

Purified Mouse Monoclonal Antibody
Catalog # AO1751a

Product Information

Application	WB, E
Primary Accession	P20265
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Clone Names	6H12
Isotype	IgG1
Calculated MW	46893
Description	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.
Immunogen	Purified recombinant fragment of human POU3F2 (AA: 214-362) expressed in E. Coli.
Formulation	Purified antibody in PBS with 0.05% sodium azide

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
Dilution	WB~~1/250 E~~1/10000
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 Antibody 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

References

1.Cancer Res. 2008 Oct 1;68(19):7788-94.2.Mol Cancer. 2006 Dec 12;5:72.

Images

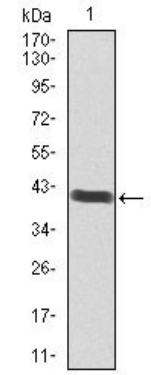


Figure 1: Western blot analysis using POU3F2 mAb against human POU3F2 recombinant protein. (Expected MW is 42.1 kDa)

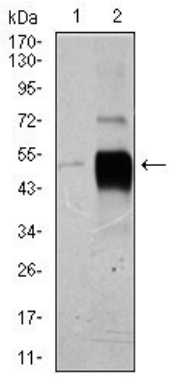


Figure 2: Western blot analysis using POU3F2 mouse mAb against HeLa (1), and SK-N-SH (2) cell lysate.

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