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Rabbit Anti-POU3F3 antibody

SL11947R

Product Name:	POU3F3
Chinese Name:	大脑蛋白1抗体
Alias:	Brain 1; Brain1; Brain specific homeobox/POU domain protein 1; Brain-1; Brain-specific homeobox/POU domain protein 1; Brain1; BRN 1; Brn-1; BRN1; class 3; Oct-8; Octamer-binding protein 8; Octamer-binding transcription factor 8; OTF 8; OTF-8; OTF8; PO3 F3; PO3F 3; PO3F3; PO3F3_HUMAN; POU class 3 homeobox 3; POU domain; POU domain, class 3, transcription factor 3; POU3 F3; POU3F 3; Pou3f3; RHS 1; Rhs 2; RHS1; Rhs2; Skin 1; Skin1; transcription factor 3.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,Dog,Pig,Cow,Horse,Rabbit,Sheep,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500（Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	50kDa
Cellular localization:	The nucleus
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human Brain1/POU3F3:351-450/500
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. 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.
PubMed:	PubMed
Product Detail:	The Brn family of transcription factors are found in a highly restricted subset of neurons and are critical to the early embryonic development of the central nervous system. Brn-1

and Brn-2 are class III POU domain proteins. Expressed during the development of the forebrain and coexpressed in most layer II-V cortical neurons, Brn-1 and Brn-2 appear to critically control the initiation of radial migration of cortical neurons. Brn-2 is thought to be involved in smooth muscle cell development and differentiation. Brn-3 is a class IV POU domain protein. Three Brn-3 proteins have been described and are designated Brn-3a, Brn-3b and Brn-3c. Brn-3a has two functional transactivating domains, one at the amino terminus and one at the carboxy terminus. While Brn-3a and Brn-3c stimulate transcription, Brn-3b generally functions as a transcriptional repressor. However, Brn-3b, but not Brn-3a, has been shown to regulate the expression of the acetylcholine receptor.

Function:
Transcription factor that acts synergistically with SOX11 and SOX4. Plays a role in neuronal development. Is implicated in an enhancer activity at the embryonic met-mesencephalic junction; the enhancer element contains the octamer motif (5'-ATTTGCAT-3').

Subcellular Location:
Nucleus.

Tissue Specificity:
Brain.

Similarity:
Belongs to the POU transcription factor family. Class-3 subfamily.
Contains 1 homeobox DNA-binding domain.
Contains 1 POU-specific domain.

SWISS:
P20264

Gene ID:
5455

Database links:

Entrez Gene: 5455 Human

Entrez Gene: 18993 Mouse

Entrez Gene: 192109 Rat

Omim: 602480 Human

SwissProt: P20264 Human

	SwissProt: P31361 Mouse SwissProt: Q63262 Rat Unigene: 673855 Human Unigene: 440553 Mouse Unigene: 483029 Mouse Unigene: 11354 Rat **Important Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.