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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 homeo domain protein 1; Brain1; BRN 1; Brn-1; BRN1; class 3; Oct-8; Octamer-binding protein 8; Oct transcription factor 8; OTF 8; OTF-8; OTF8; PO3 F3; PO3F 3; PO3F3; PO3F3_HUMAN; POU homeobox 3; POU domain; POU domain, class 3, transcription factor 3; POU3 F3; POU3F 3; Po Rhs 2; RHS1; Rhs2; Skin 1; Skin1; transcription factor 3.
Research Area	Cell biology Developmental biology Neurobiology Signal transduction Epigenetics
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	(predicted: Human, Mouse, Rat, Chicken, Dog, Pig, Cow, Horse, Rabbit, Sheep,)
Applications	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Theoretical molecular weight	50kDa
Cellular localization	The nucleus
Form	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
Buffer Solution	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.
Storage	Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Attention	This product as supplied is intended for research use only, not for use in human, therapeutic or d

applications.

PubMed

PubMed

The Brn family of transcription factors are found in a highly restricted subset of neurons and are early embryonic development of the central nervous system. Brn-1 and Brn-2 are class III POU d Expressed during the development of the forebrain and coexpressed in most layer II-V cortical n and Brn-2 appear to critically control the initiation of radial migration of cortical neurons. Brn-2 involved in smooth muscle cell development and differentiation. Brn-3 is a class IV POU domain Brn-3 proteins have been described and are designated Brn-3a, Brn-3b and Brn-3c. Brn-3a has tw transactivating domains, one at the amino terminus and one at the carboxy terminus. While Brn- stimulate transcription, Brn-3b generally functions as a transcriptional repressor. However, Brn- Brn-3a, has been shown to regulate the expression of the acetylcholine receptor.

Product Detail

Function:
Transcription factor that acts synergistically with SOX11 and SOX4. Plays a role in neuronal de implicated in an enhancer activity at the embryonic met-mesencephalic junction; the enhancer el 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

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SwissProt: P20264 Human

SwissProt: P31361 Mouse

SwissProt: Q63262 Rat

Unigene: 673855 Human

Unigene: 440553 Mouse

Unigene: 483029 Mouse

Unigene: 11354 Rat