

Rabbit Anti-POU3F3/AF350 Conjugated antibody

SL11947R-AF350

Product Name	Anti-POU3F3/AF350
Chinese Name	AF350 标记的大脑蛋白 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.
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) ICC/IF=1:50-200,IF=1:100-500
Applications	not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight	50kDa
Form	Lyophilized or Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human Brain1/POU3F3
Lsotype	IgG
Purification	affinity purified by Protein A
Storage Buffer	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol 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 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Storage	

background:

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').

Product Detail

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.

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.