



Rabbit Anti-NPAS4 antibody

SL19325R

Product Name:	NPAS4
Chinese Name:	神经细胞PAS结构域蛋白4抗体
Alias:	bHLH PAS type transcription factor NXF; bHLHe79; bHLHe79; Class E basic helix-loop-helix protein 79; HLH-PAS transcription factor NXF; Le PAS; limbic enhanced PAS protein; neuronal PAS domain protein 4; Neuronal PAS domain-containing protein 4; Neuronal PAS4; NPAS4; NPAS4_HUMAN; NXF; PAS domain-containing protein 10; PASD10.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Pig,Cow,Horse,Rabbit,Sheep,
Applications:	ELISA=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:	87kDa
Cellular localization:	The nucleus
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human NPAS4:1-100/802
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:	NXF is a member of the basic helix-loop-helix-PER (MIM 602260)-ARNT (MIM 126110)-SIM (see SIM2; MIM 600892) (bHLH-PAS) class of transcriptional regulators, which are involved in a wide range of physiologic and developmental events

(Ooe et al., 2004 [PubMed 14701734]).[supplied by OMIM, Mar 2008]

Function:

Acts as a transcriptional activator in the presence of ARNT. Can activate the CME (CNS midline enhancer) element and the expression of the drebrin gene.

Subunit:

Efficient DNA binding requires dimerization with another bHLH protein. Forms a heterodimer with ARNT.

Subcellular Location:

Nucleus.

Tissue Specificity:

Brain.

Similarity:

Contains 1 basic helix-loop-helix (bHLH) domain.

Contains 1 PAC (PAS-associated C-terminal) domain.

Contains 2 PAS (PER-ARNT-SIM) domains.

SWISS:

Q8IUM7

Gene ID:

266743

Database links:

[Entrez Gene: 266743](#) Human

[Entrez Gene: 225872](#) Mouse

[Entrez Gene: 266734](#) Rat

[Entrez Gene: 724016](#) Zebrafish

[Oimim: 608554](#) Human

[SwissProt: Q8IUM7](#) Human

[SwissProt: Q8BGD7](#) Mouse

[SwissProt: Q8CJH6](#) Rat

[SwissProt: Q1ECW2](#) Zebrafish

[Unigene: 256036](#) Human

[Unigene: 287867](#) Mouse

[Unigene: 86654](#) Rat

[Unigene: 81110](#) Zebrafish

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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