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Rabbit Anti-NPAS3 antibody

SL11905R

Product Name	NPAS3
Chinese Name	神经细胞 PAS 结构域蛋白 3 抗体
Alias	Basic helix loop helix PAS protein MOP6; Basic-helix-loop-helix-PAS protein MOP6; bHLHe12; Class E basic helix-loop-helix protein 12; FLJ10003; FLJ11138; FLJ11605; Member of PAS protein 6; MOP 6; MOP6; Neuronal PAS domain containing protein 3; Neuronal PAS domain protein 3; Neuronal PAS domain-containing protein 3; Neuronal PAS3; NPAS 3; NPAS3; NPAS3_HUMAN; PAS domain-containing protein 6; PASD 6; PASD6.
Research Area	Neurobiology Signal transduction transcriptional regulatory factor Epigenetics
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	(predicted: Human, Mouse, Rat, Chicken, Dog, Cow, Horse, Sheep,)
Applications	IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:5000-10000 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Theoretical molecular weight	101kDa
Cellular localization	The nucleus
Form	Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human NPAS3: 21-120/933
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

diagnostic applications.

PubMed PubMed

The Per-Arnt-Sim (PAS) domain is a 270 amino acid motif that mediates associations among various PAS family transcription factors. The PAS family contains neuronal specific transcription factors known as NPAS1, NPAS2 and NPAS3, which are involved the development and maintenance of learning and memory pathways. NPAS1 regulates erythropoietin expression in developing brain. NPAS2, also designated PAS 4/MOP4, associates with MOP3 to activate transcription. NPAS3, which localizes to the nucleus and is ubiquitously expressed in the adult brain, may be involved in neurogenesis and may control regulatory pathways relevant to psychotic illness and to schizophrenia. It regulates tracheal cell fates in the embryo and is necessary for the development of the posterior spiracles and the salivary gland duct. NPAS3 contains 1 basic helix-loop-helix (bHLH) domain, 1 PAC (PAS-associated C-terminal) domain, and 2 PAS (PER-ARNT-SIM) domains. Efficient DNA binding by NPAS2 requires dimerization with another bHLH protein.

Function:
May play a broad role in neurogenesis. May control regulatory pathways relevant to schizophrenia and to psychotic illness.

Subunit:
Efficient DNA binding requires dimerization with another bHLH protein.

Product Detail

Subcellular Location:
Nucleus.

Tissue Specificity:
Ubiquitously expressed in the adult brain.

DISEASE:
Note=A chromosomal aberration involving NPAS3 is found in a family with schizophrenia. Translocation t(9;14)(q34;q13).

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:
Q8IXF0

Gene ID:
64067

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Database links:

Entrez Gene: 527053 Cow

Entrez Gene: 100688457 Dog

Entrez Gene: 102191653 Goat

Entrez Gene: 100713384 Guinea pig

Entrez Gene: 100050414 Horse

Entrez Gene: 64067 Human

Entrez Gene: 27386 Mouse

Entrez Gene: 100739785 Pig

Entrez Gene: 299016 Rat

Entrez Gene: 570491 Zebrafish

SwissProt: Q8IXF0 Human

SwissProt: Q9QZQ0 Mouse