
Product Name: NPAS2 Rabbit Polyclonal Antibody**Catalog #: APRab14826**

For research use only.

Summary

Description	Rabbit polyclonal Antibody
Host	Rabbit
Application	WB,ELISA
Reactivity	Human,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Concentration	1mg/ml
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:500-1:2000,ELISA 1:5000-1:10000
Molecular Weight	91kDa

Antigen Information

Gene Name	NPAS2 NPAS2; BHLHE9; MOP4; PASD4; Neuronal PAS domain-containing protein 2; Neuronal PAS2;
Alternative Names	Basic-helix-loop-helix-PAS protein MOP4; Class E basic helix-loop-helix protein 9; bHLHe9; Member of PAS protein 4; PAS domain-containing protein 4
Gene ID	4862.0
SwissProt ID	Q99743
Immunogen	Synthesized peptide derived from NPAS2 . at AA range: 340-420

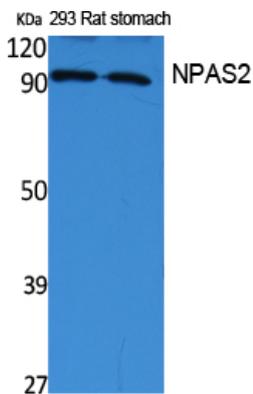
Background

The protein encoded by this gene is a member of the basic helix-loop-helix (bHLH)-PAS family of transcription factors. A similar mouse protein may play a regulatory role in the acquisition of specific types of memory. It also may function as a part of a molecular clock operative in the mammalian forebrain. [provided by RefSeq, Jul 2008],function:BMAL1-NPAS2 heterodimers activate E-box element (3'-CACGTG-5') transcription of a number of proteins of the circadian clock. This transcription is inhibited in a feedback loop by PER, and also by CRY proteins.,polymorphism:Variants in NPAS2 show a susceptibility to seasonal affective disorder (SAD) [MIM:608516]. SAD is a depressive condition resulting from seasonal changes, and with diurnal preference.,similarity:Contains 1 basic helix-loop-helix (bHLH) domain.,similarity:Contains 1 PAC (PAS-associated C-terminal) domain.,similarity:Contains 2 PAS (PER-ARNT-SIM) domains.,subunit:Component of the circadian clock oscillator which includes the CRY proteins, CLOCK or NPAS2, BMAL1 or BMAL2, CSNK1D and/or CSNK1E, TIMELESS and the PER proteins. Efficient DNA binding requires dimerization with another bHLH protein. Heterodimerization with CLOCK or NPAS2 is required for E-box-dependent transactivation.,

Research Area

Circadian rhythm;

Image Data



Western Blot analysis of extracts from rat stomach, 293 cells, using NPAS2 Polyclonal Antibody.. Secondary antibody was diluted at 1:20000.