NPAS2 Rabbit pAb

CatalogNo: YT5045 Orthogonal Validated

Key Features

Host Species
- Rabbit

Reactivity
- Human,Rat

Applications
- WB,ELISA

MW
- 91kD (Observed)

Isotype
- IgG

Storage

Storage*	-15°C to -25°C/1 year(Do not lower than -25°C)
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Recommended Dilution Ratios

WB 1:500-1:2000
ELISA 1:5000
Not yet tested in other applications.

Basic Information

Clonality	Polyclonal

Immunogen Information

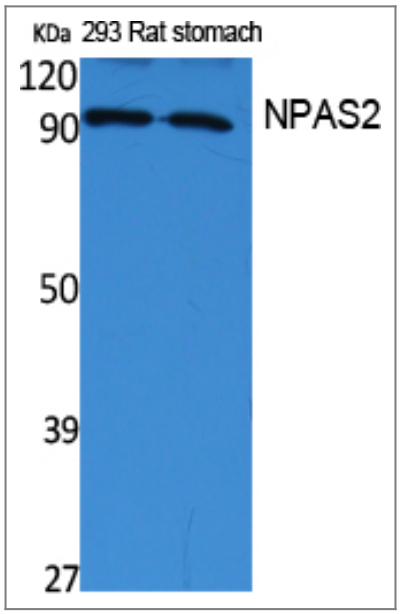
Immunogen	Synthesized peptide derived from NPAS2 . at AA range: 340-420
Specificity	NPAS2 Polyclonal Antibody detects endogenous levels of NPAS2 protein.

Target Information

Gene name	NPAS2

Protein Name	Neuronal PAS domain-containing protein 2		
	Organism	**Gene ID**	**UniProt ID**
	Human	4862;	Q99743;
	Mouse		P97460;
Cellular Localization	Nucleus .		
Tissue specificity	Human lung,Lung,		
Function	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.,		

Validation Data



Western Blot analysis of extracts from rat stomach, 293 cells, using NPAS2 Polyclonal Antibody. Secondary antibody(catalog#:RS0002) was diluted at 1:20000 cells nucleus extracted by Minute TM Cytoplasmic and Nuclear Fractionation kit (SC-003,Inventbiotech,MN,USA).

Contact information

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Please scan the QR code to access additional product information:
NPAS2 Rabbit pAb

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Antibody | ELISA Kits | Protein | Reagents