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## **NPAS2 (M) Antibody, Rabbit Polyclonal**

**Cat#: R1979-3**

**Quantity: 100 ul**

**Predicted | Observed M.W.: 91 kDa**

**Lot#: Refer to vial**

**Application: WB, ChIP**

**Uniprot ID: P97460**

### **Background:**

Neuronal PAS domain-containing protein 2 (NPAS2) is a member of the basic helix-loop-helix (bHLH)-PAS family of transcription factors and a 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. NPAS2 binds to DNA when dimerizing with another bHLH protein. 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.

### **Other Names:**

Neuronal PAS domain-containing protein 2, Neuronal PAS2

### **Source and Purity:**

Rabbit polyclonal antibodies were produced by immunizing animals with a GST-fusion protein containing the middle region of mouse NPAS2. Antibodies were purified by affinity purification using immunogen.

### **Storage Buffer and Condition:**

Supplied in 1 x PBS (pH 7.4), 100 ug/ml BSA, 40% Glycerol, 0.01% NaN<sub>3</sub>. Store at -20 °C. Stable for 6 months from date of receipt.

### **Species Specificity:**

Human, Mouse

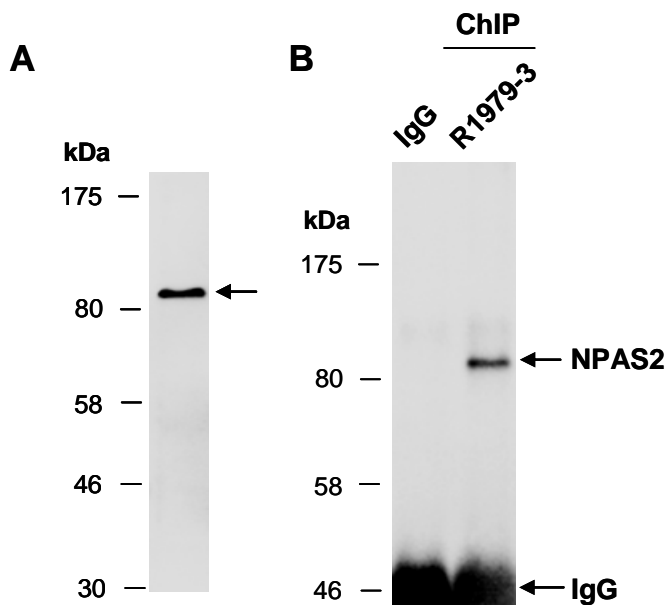
### **Tested Applications:**

WB: 1:1,000-1:3,000 (detect endogenous protein\*)

ChIP: 1:100-1:200

\*: The apparent protein size on WB may be different from the calculated M.W. due to modifications.

**Product Data:**



**Fig 1. (A)** Western blot of total cell extracts from human HeLa, using anti-NPAS2 (M) (R1979-3) at RT for 2 h. **(B)** Total extracts from human HeLa were immunoprecipitated (IP) with IgG or anti-NPAS2 (M) (R1979-3) under the cross-linked chromatin immunoprecipitation (ChIP) conditions; followed by WB with the same Ab at RT for 2 h.