

# Recombinant Human NPAS2 cell lysate

**Cat. No.** NPAS2-1208HCL    **Lot. No.** (See product label)

## SPECIFICATION

### Product Overview

|                       |                                                                                                                                                                                                                                                                                                                     |
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| <b>Species</b>        | Human                                                                                                                                                                                                                                                                                                               |
| <b>Description</b>    | 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. |
| <b>Size</b>           | 100 ul                                                                                                                                                                                                                                                                                                              |
| <b>Storage Buffer</b> | 1X Sample Buffer (50 mM Tris-HCl, 2% SDS, 10% glycerol, 300 mM 2-mercaptoethanol, 0.01% Bromophenol blue)                                                                                                                                                                                                           |
| <b>Applications</b>   | Western Blot;                                                                                                                                                                                                                                                                                                       |

## GENE INFORMATION

|                        |                                                                                                                                                                                                                                                                                                                   |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | NPAS2 neuronal PAS domain protein 2 [ Homo sapiens ]                                                                                                                                                                                                                                                              |
| <b>Official Symbol</b> | NPAS2                                                                                                                                                                                                                                                                                                             |
| <b>Synonyms</b>        | NPAS2; neuronal PAS domain protein 2; neuronal PAS domain-containing protein 2; bHLHe9; MOP4; PASD4; neuronal PAS2; member of PAS protein 4; member of PAS superfamily 4; PAS domain-containing protein 4; basic-helix-loop-helix-PAS protein MOP4; class E basic helix-loop-helix protein 9; FLJ23138; MGC71151; |

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| <b>Gene ID</b>             | 4862                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>mRNA Refseq</b>         | NM_002518                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Protein Refseq</b>      | NP_002509                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>MIM</b>                 | 603347                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>UniProt ID</b>          | Q99743                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Chromosome Location</b> | 2q11.2                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Pathway</b>             | BMAL1:CLOCK/NPAS2 Activates Circadian Expression, organism-specific biosystem; Circadian Clock, organism-specific biosystem; Circadian Repression of Expression by REV-ERBA, organism-specific biosystem; Circadian rhythm - mammal, organism-specific biosystem; Circadian rhythm - mammal, conserved biosystem; Circadian rhythm pathway, organism-specific biosystem; Fatty acid, triacylglycerol, and ketone body metabolism, organism-specific biosystem; |
| <b>Function</b>            | DNA binding; Hsp90 protein binding; sequence-specific DNA binding transcription factor activity; signal transducer activity;                                                                                                                                                                                                                                                                                                                                   |