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Datasheet for ABIN6990741  
**anti-NPAS3 antibody (AA 470-520)**

## Overview

Quantity:	0.1 mg
Target:	NPAS3
Binding Specificity:	AA 470-520
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This NPAS3 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunofluorescence (IF)

## Product Details

Immunogen:	NPAS3 antibody was raised against a 28 amino acid synthetic peptide from near the center of human NPAS3. The immunogen is located within amino acids 470 - 520 of NPAS3.
Isotype:	IgG
Purification:	NPAS3 Antibody is affinity chromatography purified via peptide column.

## Target Details

Target:	NPAS3
Alternative Name:	NPAS3 ( <a href="#">NPAS3 Products</a> )
Background:	NPAS3 Antibody: Neuronal PAS domain protein 3 (NPAS3) is a brain-enriched basic helix-loop-helix PAS domain transcription factor and is broadly expressed in the developing

## Target Details

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neuroepithelium and has recently found to be disrupted by genetic translocation in a family affected with schizophrenia. It was recently shown to be involved in the regulation of FGF signaling in the dentate gyrus by controlling the expression of the FGF receptor subtype 1 and in turn neurogenesis emanating from this region. NPAS3-null mice were growth-retarded and displayed brain defects that included reduced size of the anterior hippocampus, hypoplasia of the corpus callosum, and enlargement of the ventricles, as well as several behavioral abnormalities. Furthermore, these NPAS3-null mice also exhibited disruptions in several neurosignaling pathways involving glutamate, dopamine, and serotonin. These results demonstrate the essential role played by NPAS3 during structural and functional brain development. At least three isoforms of NPAS3 are known to exist.

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Gene ID: 64067

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UniProt: [Q8IXF0](#)

## Application Details

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Application Notes: NPAS3 antibody can be used for detection of NPAS3 by Western blot at 0.5 - 2  $\mu$ g/mL. Antibody can also be used for immunohistochemistry starting at 5  $\mu$ g/mL. For immunofluorescence start at 20  $\mu$ g/mL.

Antibody validated: Western Blot in rat samples, Immunohistochemistry in human samples and Immunofluorescence in human samples. All other applications and species not yet tested.

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Restrictions: For Research Use only

## Handling

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Format: Liquid

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Concentration: 1 mg/mL

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Buffer: NPAS3 Antibody is supplied in PBS containing 0.02 % sodium azide.

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Preservative: Sodium azide

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Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

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Storage: -20 °C, 4 °C

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Storage Comment: NPAS3 antibody can be stored at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should

not be exposed to prolonged high temperatures.