

## Anti-NPAS3 Antibody

Catalog Number: A10668

### About NPAS3

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 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.

### Overview

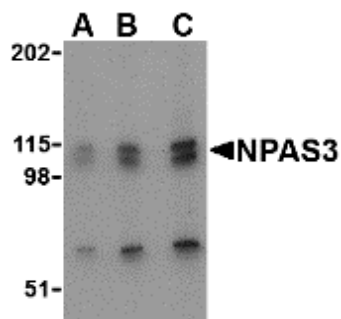
Product Name	Anti-NPAS3 Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-NPAS3 Antibody (Catalog # A10668). Tested in ELISA, WB, IHC-P, IF applications. This antibody reacts with Human, Mouse, Rat.
Application	ELISA, IF, IHC-P, WB
Clonality	Polyclonal
Formulation	NPAS3 Antibody is supplied in PBS containing 0.02% sodium azide.
Storage Instructions	NPAS3 antibody can be stored at 4°C for three months and -20°C, stable for up to one year. Avoid repeated freeze-thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Host	Rabbit
Uniprot ID	Q8IXF0

### Technical Details

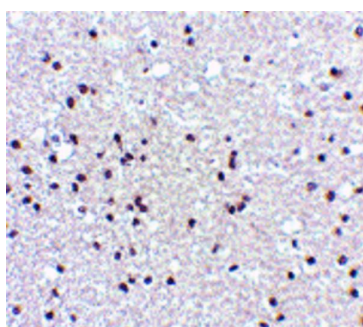
Immunogen	NPAS3 antibody was raised against a 28 amino acid synthetic peptide from near the amino terminus of human NPAS3. The immunogen is located within amino acids 40 - 90 of NPAS3.
Predicted Reactive Species	Bovine, Chicken
Isotype	IgG
Form	Liquid
Concentration	1 mg/mL

Purification	NPAS3 Antibody is affinity chromatography purified via peptide column.
Suggested Dilutions	NPAS3 antibody can be used for detection of NPAS3 by Western blot at 0.5 - 2 ug/mL. Antibody can also be used for immunohistochemistry starting at 5 ug/mL. For immunofluorescence start at 20 ug/mL. Antibody validated: Western Blot in human samples; Immunohistochemistry in human samples and Immunofluorescence in human samples. All other applications and species not yet tested. Optimal dilutions for each application should be determined by the researcher.

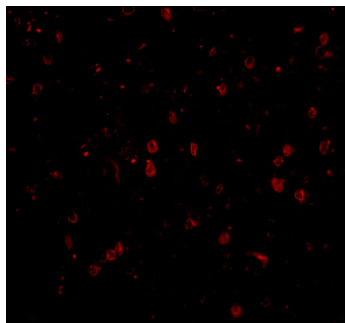
## Anti-NPAS3 Antibody (A10668) Images



Western blot analysis of NPAS3 in SK-N-SH cell lysate with NPAS3 antibody at (A) 0.5, (B) 1 and (C) 2 ug/mL.



Immunohistochemistry of NPAS3 in human brain tissue with NPAS3 antibody at 5 ug/mL.



Immunofluorescence of NPAS3 in human brain tissue with NPAS3 antibody at 20 ug/mL.

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