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Datasheet for ABIN500379 anti-NPAS3 antibody (N-Term)

2 Images



Overview

Quantity:	0.1 mg
Target:	NPAS3
Binding Specificity:	N-Term
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This NPAS3 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Enzyme Immunoassay (EIA)

Product Details

Immunogen:	NPAS3 antibody was raised against a 28 amino acid peptide from near the amino terminus of human NPAS3.
lsotype:	lgG
Specificity:	This antibody detects NPAS3 / MOP6 at N-term.
Cross-Reactivity (Details):	Species reactivity (tested):Human, mouse, rat
Purification:	Peptide affinity chromatography
Target Details	

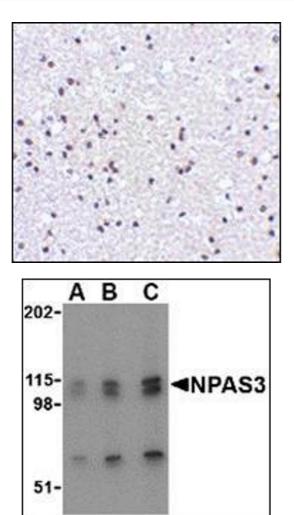
Target:

NPAS3

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Target Details	
Alternative Name:	NPAS3 / MOP6 (NPAS3 Products)
Background:	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.Synonyms: Basic-helix-loop-helix-PAS protein MOP6, Member of PAS protein
	6, Neuronal PAS domain-containing protein 3, Neuronal PAS3
Gene ID:	64067
UniProt:	Q8IXF0
Application Details	
Application Notes:	ELISA. Western blot: 0.5 - 1 μ g/mL. Immunohistochemistry on paraffin sections.
	Other applications not tested.
	Optimal dilutions are dependent on conditions and should be determined by the user.
Restrictions:	For Research Use only
Handling	
Buffer:	PBS containing 0.02 % sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which
	should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	Store at 2 - 8 °C for up to one month or (in aliquots) at -20 °C for longer.

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Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Immunohistochemistry of NPAS3 in human brain tissue with this product at $5 \mu g/ml$.

Western Blotting

Image 2. Western blot analysis of NPAS3 in SK-N-SH cell lysate with this product at (A) 0.5, (B) 1 and (C) $2 \mu g/ml$.

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