

Rabbit anti-Human NPAS4 Polyclonal Antibody | anti-NPAS4 antibody

NPAS4 Antibody

CATALOG # AAA234152	HOST Rabbit	REACTIVITY Human	APPLICATIONS Immunohistochemistry, Western Blot, ELISA
-------------------------------	-----------------------	----------------------------	--

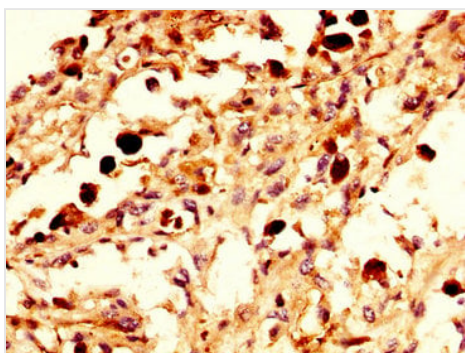
PRODUCT SYNONYMS

NPAS4; Polyclonal Antibody; NPAS4 Antibody; Neuronal PAS domain-containing protein 4; Neuronal PAS4; Class E basic helix-loop-helix protein 79; bHLHe79; HLH-PAS transcription factor NXF1; anti-NPAS4 antibody

PRODUCT SPECIFICATIONS

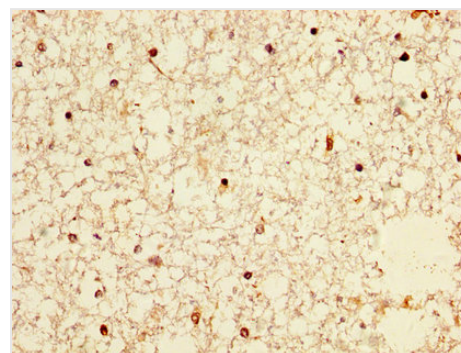
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	>95%, Protein G purified
Form/Format	Liquid
Sequence Length	592
Applicable Applications for anti-NPAS4 antibody	IHC (Immunohistochemistry), WB (Western Blot), ELISA
Immunogen	Recombinant Human Neuronal PAS domain-containing protein 4 protein (445-585AA)
Conjugation	Non-conjugated
Buffer	Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, pH 7.4
Preparation and Storage	Upon receipt, store at -20 degree C or -80 degree C. Avoid repeated freeze.

IMAGES



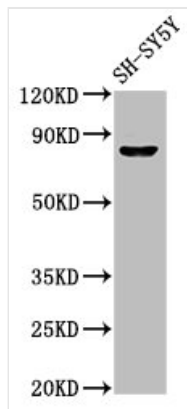
IHC (Immunohistochemistry)

IHC image of AAA234152 diluted at 1:300 and staining in paraffin-embedded human melanoma cancer performed on a Leica Bond™ system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4 degree C overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.



IHC (Immunohistochemistry)

IHC image of AAA234152 diluted at 1:300 and staining in paraffin-embedded human brain tissue performed on a Leica Bond™ system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4 degree C overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.



WB (Western Blot)
 Western BlotPositive WB detected in: SH-SY5Y whole cell lysateAll lanes: NPAS4 antibody at 7ug/mlSecondaryGoat polyclonal to rabbit IgG at 1/50000 dilutionPredicted band size: 88, 26 KDaObserved band size: 88 KDa

ADDITIONAL INFORMATION

Related Product Information for anti-NPAS4 antibody	Transcription factor expressed in neurons of the brain that regulates the excitatory-inhibitory balance within neural circuits and is required for contextual memory in the hippocampus (By similarity). Plays a key role in the structural and functional plasticity of neurons (By similarity). Acts as an early-response transcription factor in both excitatory and inhibitory neurons, where it induces distinct but overlapping sets of late-response genes in these two types of neurons, allowing the synapses that form on inhibitory and excitatory neurons to be modified by neuronal activity in a manner specific to their function within a circuit, thereby facilitating appropriate circuit responses to sensory experience (By similarity). In excitatory neurons, activates transcription of BDNF, which in turn controls the number of GABA-releasing synapses that form on excitatory neurons, thereby promoting an increased number of inhibitory synapses on excitatory neurons (By similarity). In inhibitory neurons, regulates a distinct set of target genes that serve to increase excitatory input onto somatostatin neurons, probably resulting in enhanced feedback inhibition within cortical circuits (By similarity). The excitatory and inhibitory balance in neurons affects a number of processes, such as short-term and long-term memory, acquisition of experience, fear memory, response to stress and social behavior (By similarity). Acts as a regulator of dendritic spine development in olfactory bulb granule cells in a sensory-experience-dependent manner by regulating expression of MDM2 (By similarity). Efficient DNA binding requires dimerization with another bHLH protein, such as ARNT, ARNT2 or BMAL1 (PubMed:14701734). Can activate the CME (CNS midline enhancer) element (PubMed:14701734).
Product Categories/Family for anti-NPAS4 antibody	Epigenetics and Nuclear Signaling

NCBI AND UNIPROT INFORMATION

NCBI GI #	974005163
NCBI GeneID	266743
NCBI Accession #	NP_001305733.1
NCBI GenBank Nucleotide #	NM_001318804.1
UniProt Accession #	Q8IUM7; Q8N8S5; Q8N9Q9; B7ZL81
Molecular Weight	25,492 Da
NCBI Official Full Name	neuronal PAS domain-containing protein 4 isoform 2
NCBI Official Synonym Full Names	neuronal PAS domain protein 4
NCBI Official Symbol	NPAS4
NCBI Official Synonym Symbols	NXF; Le-PAS; PASD10; bHLHe79
NCBI Protein Information	neuronal PAS domain-containing protein 4

UniProt Protein Name	Neuronal PAS domain-containing protein 4
UniProt Gene Name	NPAS4
UniProt Synonym Gene Names	Neuronal PAS4Curated; bHLHe79Curated

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/polyclonal/npas4-antibody-immunohistochemistry-western-blot-elisa/234152>