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PASD5 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP54671

Product Information

Application	WB, IHC-P, IHC-F, IF, ICC, E
Primary Accession	Q99742
Reactivity	Rat, Pig, Dog, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	62702
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human PASD5/NPAS1
Epitope Specificity	21-120/590
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Nuclear
SIMILARITY	Contains 1 bHLH (basic helix-loop-helix) domain. Contains 1 PAC (PAS-associated C-terminal) domain. Contains 2 PAS (PER-ARNT-SIM) domains.
SUBUNIT	Efficient DNA binding requires dimerization with another bHLH protein. Interacts with ARNT
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	The protein encoded by this gene is a member of the basic helix-loop-helix (bHLH)-PAS family of transcription factors. Studies of a related mouse gene suggest that it functions in neurons. The exact function of this gene is unclear, but it may play protective or modulatory roles during late embryogenesis and postnatal development. [provided by RefSeq, Jul 2008]

Additional Information

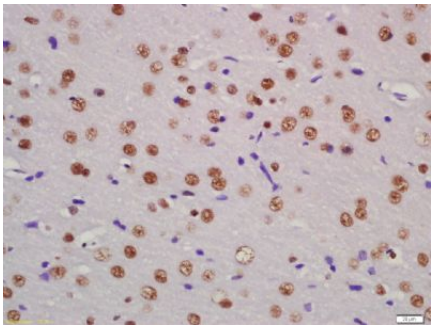
Gene ID	4861
Other Names	Neuronal PAS domain-containing protein 1, Neuronal PAS1, Basic-helix-loop-helix-PAS protein MOP5, Class E basic helix-loop-helix protein 11, bHLHe11, Member of PAS protein 5, PAS domain-containing protein 5, NPAS1, BHLHE11, MOP5, PASD5
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,ICC=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Format	0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glyce
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody

is stable for at least two weeks at 2-4 °C.

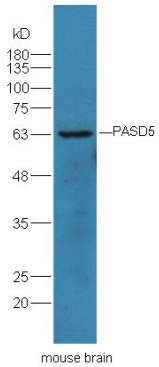
Protein Information

Name	NPAS1
Synonyms	BHLHE11, MOP5, PASD5
Function	May control regulatory pathways relevant to schizophrenia and to psychotic illness. May play a role in late central nervous system development by modulating EPO expression in response to cellular oxygen level (By similarity). Forms a heterodimer that binds core DNA sequence 5'-TACGTG-3' within the hypoxia response element (HRE) leading to transcriptional repression on its target gene TH (By similarity).
Cellular Location	Nucleus {ECO:0000255|PROSITE-ProRule:PRU00981}.

Images



Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37℃ for 20 min;
Incubation: Anti-PASD5 Polyclonal Antibody, Unconjugated(AP54671) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Sample: Brain (Mouse) Lysate at 40 ug
Primary: Anti-PASD5 (AP54671) at 1/300 dilution
Secondary: HRP conjugated Goat-Anti-rabbit IgG (bs-0295G-HRP) at 1/5000 dilution
Predicted band size: 63 kD
Observed band size: 63 kD