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NPAS4 (vPair™) Antibodies

Cat#: R1980-vp

Lot#: Refer to vial

Predicted | Observed M.W.: 87 kDa

Uniprot ID: Q8BGD7

Application: WB

Quantity: 50 ul NPAS4 (N) (R1980-1) Rabbit Polyclonal Antibody &

50 ul NPAS4 (C2) (R1980-3) Rabbit Polyclonal Antibody

Product Introduction:

vPair™ antibodies represent a pair of fully characterized antibodies that recognize two different regions of a target protein. The product is developed by Abiocode to address whether the signal observed truly represents the protein of interest, an often encountered issue in antibody-based assays. The use of a pair of fully characterized vPair™ antibodies in the same assay can validate signal specificity since vPair™ antibodies recognize two independent epitopes of the same protein. Different sets of vPair™ antibodies are developed at Abiocode to work with specific applications, including antibody arrays, Western blot, IP-Western, ChIP, IHC, and FACS.

Background:

Neuronal PAS domain-containing protein 4 (NPAS4) is a member of the basic helix-loop-helix-PER (MIM 602260)-ARNT (MIM 126110)-SIM (bHLH-PAS) class of transcriptional regulators, which are involved in a wide range of physiologic and developmental events. NPAS4 acts as a transcriptional activator in the presence of ARNT. NPAS4 can also activate the CME (CNS midline enhancer) element and the expression of the drebrin gene.

Other Names:

Neuronal PAS domain-containing protein 4, Neuronal PAS4, Class E basic helix-loop-helix protein 79, bHLHe79, HLH-PAS transcription factor NXF, PAS domain-containing protein 10, BHLHE79, NXF, PASD10, Le-PAS

Source and Purity:

Rabbit polyclonal antibodies were produced by immunizing animals with GST-fusion proteins containing the either the N-terminal [NPAS4 (N) (R1980-1)] or the C-terminal [NPAS4 (C2) (R1980-3)] region of mouse NPAS4. Antibodies were purified by affinity purification using immunogen.

Species Specificity:

Human, Mouse

**For research use only. Not for therapeutic or diagnostic purposes.
Abiocode, Inc., 29397 Agoura Rd., Ste 106, Agoura Hills, CA 91301**

Storage Buffer and Condition:

Supplied in 1 x PBS (pH 7.4), 100 ug/ml BSA, 40% Glycerol, 0.01% NaN₃. Store at -20 °C. Stable for 6 months from date of receipt.

Tested Applications:

WB: 1:1,000-1:3,000 (detect endogenous protein*)

*: The apparent protein size on WB may be different from the calculated M.W. due to modifications.

Product Data:

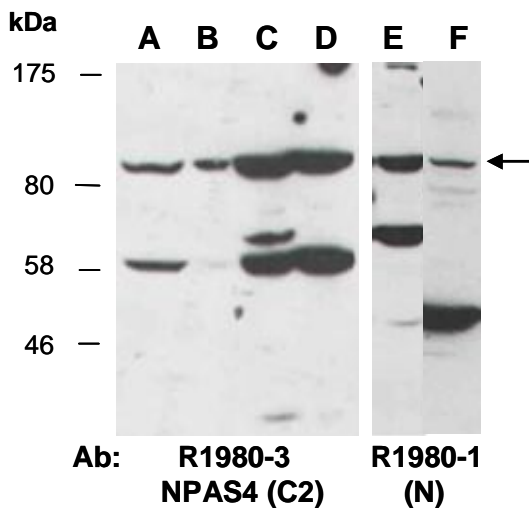


Fig 1. Western blot of total cell extracts from (A, F) mouse brain, (B) mouse thymus, (C) human HeLa, (D, E) human Jurkat; using 2 independent Abs against 2 distinct regions of mouse NPAS4 at RT for 2 h.