

AP45136PU-N

Polyclonal Antibody to ARNTL2 / BMAL2 (C-term) - Aff - Purified

Alternate names:

Aryl hydrocarbon receptor nuclear translocator-like protein 2, BHLHE6, Basic-helix-loop-helix-PAS protein MOP9, Brain and muscle ARNT-like 2, CLIF, CLIF, CYCLE-like factor, Class E basic helix-loop-helix protein 6, MOP9, Member of PAS protein 9, PAS domain-containing protein 9, PASD9, bHLHe6

Quantity:

50 µg

Background:

ARNTL2-CLOCK heterodimers activate E-box element (3'-CACGTG-5') transcription. Also, in umbilical vein endothelial cells, ARNTL2 activates SERPINE1 through E-box sites. This transactivation is inhibited by PER2 and CRY1. It is expressed in fetal brain and highly expressed in brain and placenta. Lower levels are found in heart, liver, thymus, kidney and lung. It is located to endothelial cells and neuronal cells of the suprachiasmatic nucleus (SCN) and also detected in endothelial cells of the heart, lung and kidney. In the brain, it is specifically expressed in the thalamus, hippocampus and amygdala.

Uniprot ID:

[Q2VPD4](#)

NCBI:

[NP_758513.1](#)

GeneID:

[272322](#)

Host:

Rabbit

Immunogen:

Synthetic peptide directed towards the middle region of mouse ARNTL2
AA Sequence:

AILGYLPQELLGTSCYEYFHQDDHSSLTDKHKAVLQSKEKILTDSYKFRV

Format:

State: Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.

Purification: Purified using peptide immunoaffinity column

Applications:

Western blotting (0.2 -1 µg/ml).

Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Species Reactivity:

Tested: Mouse

Expected from sequence similarity: Rat, Human, Bovine, Dog

Storage:

Store undiluted at 2-8°C for one month or (in aliquots) at -20°C to -80°C for longer. Avoid repeated freezing and thawing.
Shelf life: one year from despatch.

General Readings:

"CLIF, a novel cycle-like factor, regulates the circadian oscillation of plasminogen activator inhibitor-1 gene expression." Maemura K., de La Monte S.M., Chin M.T., Layne M.D., Hsieh C.-M., Yet S.-F., Perrella M.A., Lee M.-E. J. Biol. Chem. 275:36847-36851(2000)

Pictures:

WB Suggested Anti-Arntl2 Antibody
Titration: 0.2-1 ug/ml; ELISA Titer: 1:
62500; Positive Control: Mouse Kidney

