

Recombinant Full Length Human ARNTL2 Protein, GST-tagged

Cat. No. ARNTL2-1251HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human ARNTL2 full-length ORF (AAH00172.3, 1 a.a. - 579 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	579 amino acids
Description	This gene encodes a basic helix-loop-helix transcription factor belonging to the PAS (PER, ARNT, SIM) superfamily. The PAS proteins play important roles in adaptation to low atmospheric and cellular oxygen levels, exposure to certain environmental pollutants, and diurnal oscillations in light and temperature. This protein forms a transcriptionally active heterodimer with the circadian CLOCK protein, the structurally related MOP4, and hypoxia-inducible factors, such as HIF1alpha. Consistent with its role as a biologically relevant partner of circadian and hypoxia factors, this protein is coexpressed in regions of the brain such as the thalamus, hypothalamus, and amygdala. Alternatively spliced transcript variants encoding different isoforms have been described for this gene. [provided by RefSeq, Oct 2011]
Molecular Mass	90.09 kDa
AA Sequence	MGKVLREENQ CIAPVVSSRV SPGTRPTAMG SFSSHMTEFP RKRKGSDSDP SQEAHSQTEK RRRDKMNNLI EELSAMIPQC NPMARKLDKL TVLRMAVQHL RSLKGLTNSY VGSNYRPSFL QDNELRHLIL KTAEGFLFVV GCER GKILFV

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SKSVSKILNY DQASLTGQSL FDFLHPKDVA KVKEQLSSFD ISPREKLIDA
 KTGLQVHSNL HAGRTRVYSG SRRSFFCRIK SCKISVKEEH GCLPNSKKKE
 HRKFYTIHCT GYLRSWPPNI VGMEEERNNSK KDNSNFTCLV AIGRLQPYIV
 PQNSGEINVK PTEFITRFAV NGKFVYVDQR ATAILGYLPQ ELLGTSCYEY
 FHQDDHNNLT DKHKAVLQSK EKILTDSYKF RAKDGSFVTL KSQWFSFTNP
 WTKELEYIVS VNTLVLGHSE PGEASFLPCS SQSSEESSRQ SCMSVPGMST
 GTVLGAGSIG TDIANEILD L QRLQSSSYLD DSSPTGLMKD THTVNCRSMS
 NKELFPPSPS EMGELEATRQ NQSTVAVHSH EPLLSDGAQL DFDALCDNDD
 TMAAFMNYL EAEGGLGDPG DFSDIQWTL

Applications

Enzyme-linked Immunoabsorbent Assay; Western Blot (Recombinant protein);
 Antibody Production; Protein Array

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name

[ARNTL2 aryl hydrocarbon receptor nuclear translocator-like 2 \[Homo sapiens \]](#)

Official Symbol

[ARNTL2](#)

Synonyms

ARNTL2; aryl hydrocarbon receptor nuclear translocator-like 2; aryl hydrocarbon receptor nuclear translocator-like protein 2; bHLHe6; BMAL2; CLIF; MOP9; PASD9; CYCLE-like factor; member of PAS protein 9; transcription factor BMAL2; brain and muscle ARNT-like 2; PAS domain-containing protein 9; basic-helix-loop-helix-PAS protein MOP9; class E basic helix-loop-helix protein 6; MGC149671; MGC149672

Gene ID

[56938](#)

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mRNA Refseq	NM_001248002
Protein Refseq	NP_001234931
MIM	614517
UniProt ID	Q8WYA1

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