

Recombinant Human ARNTL2 protein, GST-tagged

Cat. No. ARNTL2-843H **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	Wheat Germ
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	MGKVLREENQCIAPVVSSRVSPGTRPTAMGSFSSHMTEFPRKRKGSDSDPSQEAH SQTEKRRRDKMNNLIEELSAMIPQCNPMARKLDKLTVLRMAVQHLSLKGLTNSYV GSNYRPSFLQDNELRHLILKTAEGFLFVVGCEGKILFVSKSVSKILNYDQASLTGQS LFDLHPKDVAKVKEQLSSFDISPREDLIDAKTGLQVHSNLHAGRTRVYSGSRRSFF

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

CRIKSCKISVKEEHGCLPNSKKKEHRKFYTIHCTGYLRSWPPNIVGMEEERNSSKKDN
 SNFTCLVAIGRLQPYIVPQNSGEINVKPTFTRFAVNGKFVYVDQRATAILGYLPQEL
 LGTSCYEYFHQDDHNNLTDKHKAVLQSKEKILTDSYKFRAKDGSFVTLKSQWFSFT
 NPWTKELEYIVSVNTLVLGHSEPGEASFLPCSSQSSEESSRQSCMSVPGMSTGTVL
 GAGSIGTDIANEILDQLRLQSSSYLDDSSPTGLMKDTHTVNCRSMSNKELFPPSPSE
 MGELEATRQNQSTVAVHSHEPLLSDGAQLDFDALCDNDDTAMAAFMNYLEAEGGL
 GDPGDFSDIQWTL

Applications

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

Notes

Best use within three months from the date of receipt of this protein.

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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