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ARNTL Protein (Transcript Variant 2) (Myc-DYKDDDDK Tag)



Image



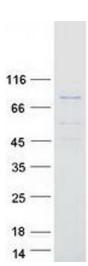
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Overview	
Quantity:	20 μg
Target:	ARNTL
Protein Characteristics:	Transcript Variant 2
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ARNTL protein is labelled with Myc-DYKDDDDK Tag.
Application:	Antibody Production (AbP), Standard (STD)
Product Details	
Characteristics:	Recombinant human ARNTL / BMAL1 (transcript variant 2) protein expressed in HEK293
	cells. • Produced with end-sequenced ORF clone
Purity:	> 80 % as determined by SDS-PAGE and Coomassie blue staining
Target Details	
Target:	ARNTL
Alternative Name:	Arntl,bmal1 (ARNTL Products)
Background:	The protein encoded by this gene is a basic helix-loop-helix protein that forms a heterodimer
	with CLOCK. This heterodimer binds E-box enhancer elements upstream of Period (PER1, PER2,
	PER3) and Cryptochrome (CRY1, CRY2) genes and activates transcription of these genes. PER

Target Details

	and CRY proteins heterodimerize and repress their own transcription by interacting in a feedback loop with CLOCK/ARNTL complexes. Defects in this gene have been linked to infertility, problems with gluconeogenesis and lipogenesis, and altered sleep patterns. Several transcript variants encoding different isoforms have been found for this gene.
Molecular Weight:	68.5 kDa
NCBI Accession:	NP_001025443
Pathways:	Regulation of Lipid Metabolism by PPARalpha, Protein targeting to Nucleus, Warburg Effect
Application Details	
Application Notes:	Recombinant human proteins can be used for:
	Native antigens for optimized antibody production
	Positive controls in ELISA and other antibody assays
Comment:	The tag is located at the C-terminal.
Restrictions:	For Research Use only
Handling	
Concentration:	50 μg/mL
Buffer:	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10 % glycerol.
Storage:	-80 °C
Storage Comment:	Store at -80°C. Thaw on ice, aliquot to individual single-use tubes, and then re-freeze immediately. Only 2-3 freeze thaw cycles are recommended.



Western Blotting

Image 1. Validation with Western Blot