



## Human PER2 peptide (DAG-P1018)

This product is for research use only and is not intended for diagnostic use.

### PRODUCT INFORMATION

<b>Antigen Description</b>	This gene is a member of the Period family of genes and is expressed in a circadian pattern in the suprachiasmatic nucleus, the primary circadian pacemaker in the mammalian brain. Genes in this family encode components of the circadian rhythms of locomotor activity, metabolism, and behavior. This gene is upregulated by CLOCK/ARNTL heterodimers but then represses this upregulation in a feedback loop using PER/CRY heterodimers to interact with CLOCK/ARNTL. Polymorphisms in this gene may increase the risk of getting certain cancers and have been linked to sleep disorders. [provided by RefSeq, Jan 2014]
<b>Specificity</b>	Widely expressed. Found in heart, brain, placenta, lung, liver, skeletal muscle, kidney and pancreas. High levels in skeletal muscle and pancreas. Low level in lung.
<b>Purity</b>	70 - 90% by HPLC.
<b>Conjugate</b>	Unconjugated
<b>Sequence Similarities</b>	Contains 1 PAC (PAS-associated C-terminal) domain. Contains 2 PAS (PER-ARNT-SIM) domains.
<b>Format</b>	Liquid
<b>Preservative</b>	None
<b>Storage</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. Information available upon request.

### GENE INFORMATION

<b>Gene Name</b>	<a href="#">PER2 period circadian clock 2 [ Homo sapiens (human) ]</a>
<b>Official Symbol</b>	PER2

<b>Synonyms</b>	PER2; period circadian clock 2; FASPS; FASPS1; period circadian protein homolog 2; hPER2; period 2; period homolog 2; period circadian protein 2; circadian clock protein PERIOD 2;
<b>Entrez Gene ID</b>	<a href="#">8864</a>
<b>mRNA Refseq</b>	<a href="#">NM_022817.2</a>
<b>Protein Refseq</b>	<a href="#">NP_073728.1</a>
<b>UniProt ID</b>	O15055
<b>Chromosome Location</b>	2q37.3
<b>Pathway</b>	BMAL1:CLOCK/NPAS2 Activates Circadian Expression, organism-specific biosystem; Circadian Clock, organism-specific biosystem; Circadian entrainment, organism-specific biosystem; Circadian entrainment, conserved biosystem; Circadian rhythm, organism-specific biosystem; Circadian rhythm, conserved biosystem; Diurnally regulated genes with circadian orthologs, organism-specific biosystem; Herpes simplex infection, organism-specific biosystem; Herpes simplex infection, conserved biosystem; Transcript
<b>Function</b>	signal transducer activity; transcription factor binding transcription factor activity;