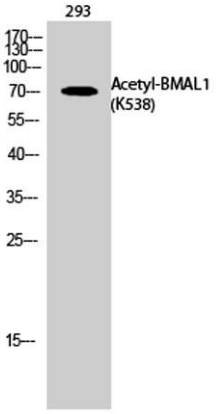
BMAL1 (Acetyl Lys538) rabbit pAb

Cat#: orb763991 (Manual)

For research use only. Not intended for diagnostic use.

Product Name	BMAL1 (Acetyl Lys538) rabbit pAb
Host species	Rabbit
Applications	WB;ELISA
Species Cross-Reactivity	Human;Mouse;Rat
Recommended dilutions	Western Blot: 1/500 - 1/2000. ELISA: 1/20000. Not yet tested in other applications.
Immunogen	The antiserum was produced against synthesized Acetyl-peptide derived from human BMAL1 around the Acetylation site of Lys538. AA range:501-550
Specificity	Acetyl-BMAL1 (K538) Polyclonal Antibody detects endogenous levels of BMAL1 protein only when acetylated at K538.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide..
Storage	Store at -20°C. Avoid repeated freeze-thaw cycles.
Protein Name	Aryl hydrocarbon receptor nuclear translocator-like protein 1
Gene Name	ARNTL
Cellular localization	Nucleus . Cytoplasm . Nucleus, PML body . Shuttles between the nucleus and the cytoplasm and this nucleocytoplasmic shuttling is essential for the nuclear accumulation of CLOCK, target gene transcription and the degradation of the CLOCK-ARNTL/BMAL1 hetero
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

Clonality	Polyclonal
Concentration	1 mg/ml
Observed band	70kD
Human Gene ID	406
Human Swiss-Prot Number	O00327
Alternative Names	ARNTL; BHLHE5; BMAL1; MOP3; PASD3; Aryl hydrocarbon receptor nuclear translocator-like protein 1; Basic-helix-loop-helix-PAS protein MOP3Brain and muscle ARNT-like 1; Class E basic helix-loop-helix protein 5; bHLHe5; Member of PAS protein 3; PAS domain-co
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 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. [provided by RefSeq, Jul 2014],



Western Blot analysis of 293 cells using Acetyl-BMAL1 (K538) Polyclonal Antibody. Secondary antibody(catalog#:RS0002) was diluted at 1:20000

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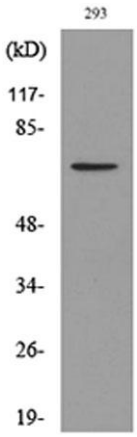

Western blot analysis of lysate from 293 cells, using BMAL1 (Acetyl-Lys538) Antibody.

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