

BMAL1 Rabbit mAb

Catalog No: #49638

Package Size: #49638-1 50ul #49638-2 100ul

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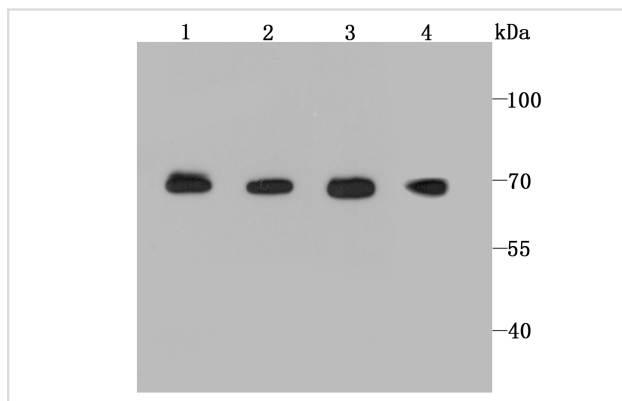
Description

Product Name	BMAL1 Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	JM17-34
Purification	ProA affinity purified
Applications	WB, ICC/IF
Species Reactivity	Hu, Ms, Rt
Immunogen Description	recombinant protein
Other Names	ARNT like protein 1 brain and muscle antibody Arntl antibody Aryl hydrocarbon receptor nuclear translocator like antibody Aryl hydrocarbon receptor nuclear translocator like protein 1 antibody Aryl hydrocarbon receptor nuclear translocator-like protein 1 antibody Basic helix loop helix PAS orphan MOP3 antibody Basic helix loop helix PAS protein MOP3 antibody Basic-helix-loop-helix-PAS protein MOP3 antibody bHLH PAS protein JAP3 antibody bHLH-PAS protein JAP3 antibody bHLHe5 antibody BMAL 1 antibody BMAL1_HUMAN antibody BMAL1c antibody Brain and muscle ARNT like 1 antibody Brain and muscle ARNT-like 1 antibody CG8727 PA antibody Class E basic helix-loop-helix protein 5 antibody cycle antibody JAP 3 antibody JAP3 antibody Member of PAS protein 3 antibody Member of PAS superfamily 3 antibody MGC47515 antibody MOP 3 antibody MOP3 antibody PAS domain-containing protein 3 antibody PASD 3 antibody PASD3 antibody TIC antibody
Accession No.	Swiss-Prot#:O00327
Uniprot	O00327
GeneID	406;
Calculated MW	68 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

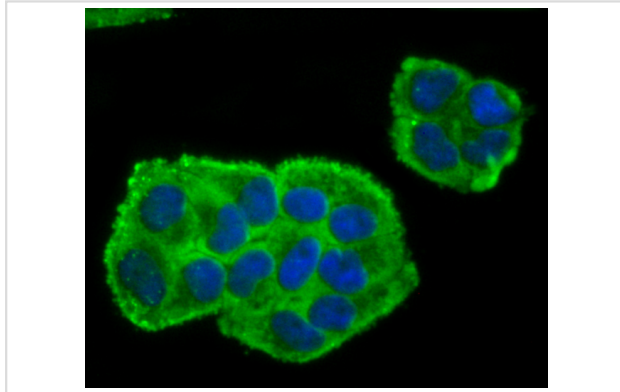
Application Details

WB: 1:1,000-1:2,000 ICC: 1:50-1:200

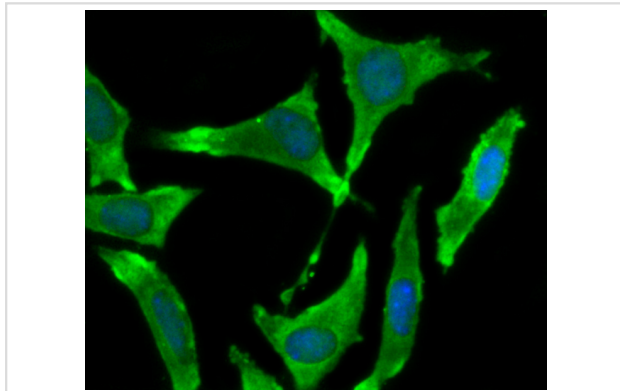
Images



Western blot analysis of BMAL1 on different lysates using anti-BMAL1 antibody at 1/1,000 dilution. Positive control:
 Lane 1: NIH/3T3
 Lane 2: Rat brain
 Lane 3: Mouse spleen
 Lane 4: HeLa



ICC staining BMAL1 in HeLa cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining BMAL1 in SH-SY5Y cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

Background

Transcriptional activator which forms a core component of the circadian clock. Transcription factors, CLOCK or NPAS2 and ARNTL/BMAL1 or ARNTL2/BMAL2, form the positive limb of the feedback loop, act in the form of a heterodimer and activate the transcription of core clock genes and clock-controlled genes (involved in key metabolic processes), harboring E-box elements (5'-CACGTG-3') within their promoters. The core clock genes: PER1/2/3 and CRY1/2 which are transcriptional repressors form the negative limb of the feedback loop and interact with the CLOCK|NPAS2-ARNTL/BMAL1|ARNTL2/BMAL2 heterodimer inhibiting its activity and thereby negatively regulating their own expression. This heterodimer also activates nuclear receptors NR1D1/2 and RORA/B/G, which form a second feedback loop and which activate and repress ARNTL/BMAL1 transcription, respectively. ARNTL/BMAL1 positively regulates myogenesis and negatively regulates adipogenesis via the transcriptional control of the genes of the canonical Wnt signaling pathway.

References

Note: This product is for in vitro research use only