

## Product datasheet for **TA301430**

### **BMAL1 (ARNTL) Rabbit Polyclonal Antibody**

#### **Product data:**

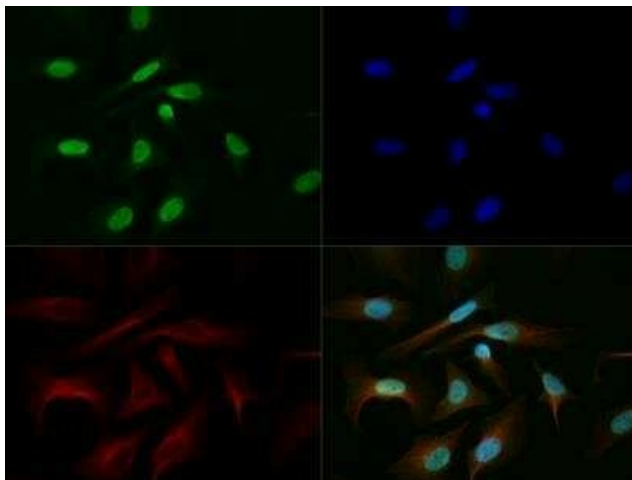
<b>Product Type:</b>	Primary Antibodies
<b>Applications:</b>	ChIP, FC, ICC/IF, IHC, WB
<b>Recommended Dilution:</b>	Chromatin Immunoprecipitation (ChIP), Knockout Validated, Flow Cytometry, Immunocytochemistry/ Immunofluorescence: 1:100, Flow (Intracellular), Immunohistochemistry-Paraffin: 1:250, Western Blot: 0.5 ug/mL - 2 ug/mL, Immunohistochemistry-Frozen, Immunohistochemistry: 1:250
<b>Reactivity:</b>	Human
<b>Host:</b>	Rabbit
<b>Isotype:</b>	IgG
<b>Clonality:</b>	Polyclonal
<b>Immunogen:</b>	Bacterially expressed human MOP3 (C-terminus).
<b>Formulation:</b>	Tris-citrate/phosphate buffer, pH 7-8 and 0.1% sodium azide
<b>Concentration:</b>	lot specific
<b>Purification:</b>	Affinity purified
<b>Conjugation:</b>	Unconjugated
<b>Storage:</b>	Store at -20°C as received.
<b>Stability:</b>	Stable for 12 months from date of receipt.
<b>Gene Name:</b>	aryl hydrocarbon receptor nuclear translocator like
<b>Database Link:</b>	<a href="#">NP_001169</a> <a href="#">Entrez Gene 406 Human</a> <a href="#">O00327</a>
<b>Background:</b>	MOP3 (BMAL1), a general dimerization partner for a subset of the bHLH-PAS (basic-helix-loop-helix-PER-ARNT-SIM) superfamily of transcription regulators, is involved in circadian rhythm generation. MOP3 interacts with MOP4, CLOCK, hypoxia-inducible factor-1 alpha and -2 alpha. This interaction appears to be distinct from that of the more characterized general partner, ARNT (HIF-1Beta).
<b>Synonyms:</b>	bHLHe5; BMAL1; BMAL1c; JAP3; MOP3; PASD3; TIC
<b>Protein Families:</b>	Druggable Genome, Transcription Factors



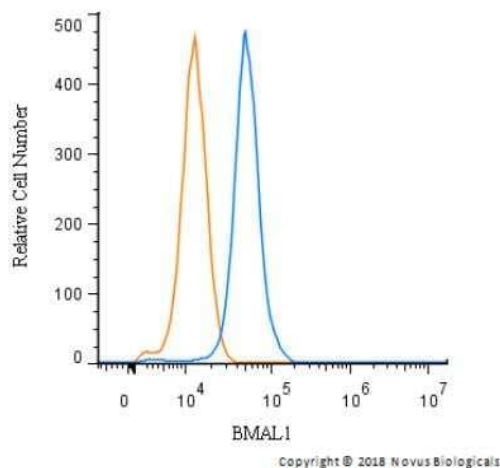
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Protein Pathways: Circadian rhythm - mammal

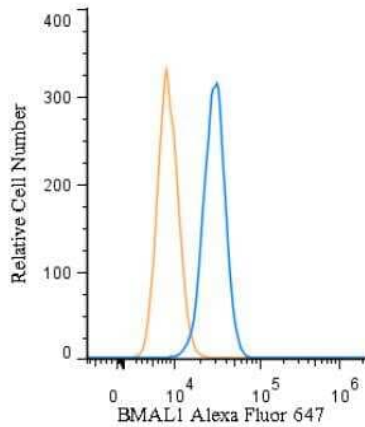
### Product images:



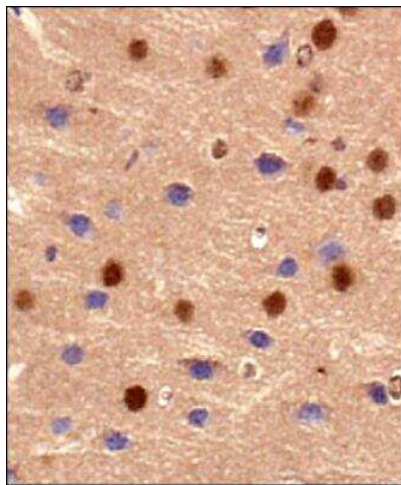
Immunocytochemistry/Immunofluorescence: BMAL1 Antibody TA301430 - BMAL1 antibody was tested in HeLa cells at a 1:200 dilution against DyLight 488 (Green). Alpha tubulin and nuclei were counterstained against DyLight 568 (Red) and DAPI (Blue), respectively.



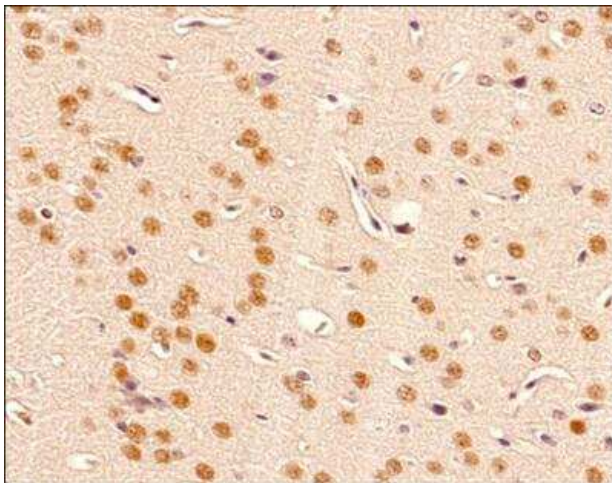
Flow Cytometry: BMAL1 Antibody TA301430 - An intracellular stain was performed on Jurkat cells with TA301430 and a matched isotype control. Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 2.5 ug/mL for 30 minutes at room temperature, followed by Rabbit IgG (H+L) Cross-Adsorbed Secondary Antibody.



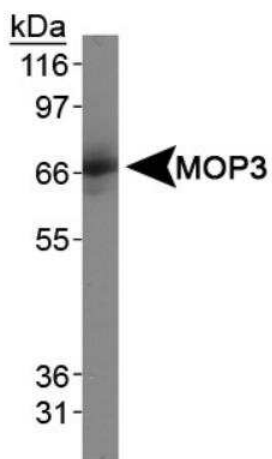
Flow (Intracellular): BMAL1 Antibody TA301430 - An intracellular stain was performed on HeLa cells with TA301430AF647(blue) and a matched isotype control (orange). Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 5 ug/mL for 30 minutes at room temperature. Both antibodies were conjugated to Alexa Fluor 647.



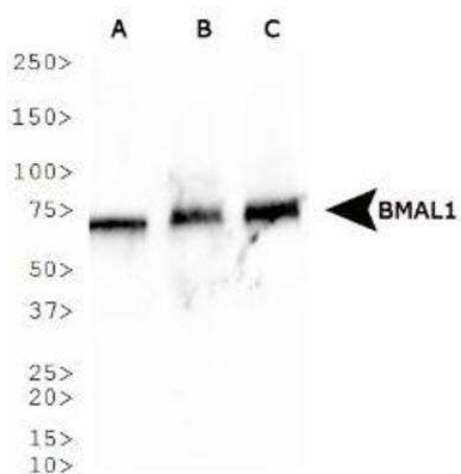
Immunohistochemistry: BMAL1 Antibody TA301430 - Analysis of BMAL1 in mouse brain using DAB with hematoxylin counterstain.



Immunohistochemistry-Paraffin: BMAL1 Antibody TA301430 - Analysis of a FFPE tissue section of mouse brain using 1:200 dilution of rabbit anti-BMAL1 antibody. The staining was developed using HRP labeled anti-rabbit IgG secondary antibody and DAB reagent, and nuclei of cells were counter-stained with hematoxylin. This BMAL1 antibody generated a specific nuclear staining in most of the cells and a relatively weaker cytoplasmic signal was also observed.



Western Blot: BMAL1 Antibody TA301430 - Analysis of MOP3 on 3T3/L1 cell lysates.



Western Blot: BMAL1 Antibody TA301430 - Analysis of BMAL1 in A) MCF7, B) NIH/3T3, C) PC12.