

# **Product datasheet for TA501227M**

## OriGene Technologies, Inc.

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### BMAL1 (ARNTL) Mouse Monoclonal Antibody [Clone ID: OTI1H6]

#### **Product data:**

**Product Type:** Primary Antibodies

Clone Name: OTI1H6
Applications: IHC, WB

**Reactivity:** WB 1:4000, IHC 1:150 **Reactivity:** Human, Mouse, Rat

Host: Mouse Isotype: IgG1

Clonality: Monoclonal

Immunogen: Full length human recombinant protein of human ARNTL(NP\_001169) produced in HEK293T

cell

**Formulation:** PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.

Concentration: 1 mg/ml

**Purification:** Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography

(protein A/G)

Conjugation: Unconjugated

**Storage:** Store at -20°C as received.

**Stability:** Stable for 12 months from date of receipt.

**Predicted Protein Size:** 68.5 kDa

**Gene Name:** aryl hydrocarbon receptor nuclear translocator like

Database Link: NP 001169

Entrez Gene 11865 MouseEntrez Gene 29657 RatEntrez Gene 406 Human

<u>000327</u>

**Background:** The protein encoded by this gene is a basic helix-loop-helix protein that forms a heterodimer

with CLOCK. This complex binds an E-box upstream of the PER1 gene, activating this gene and possibly other circadian rhythym-associated genes. Three transcript variants encoding two different instances have been found for this gene. [Provided by RefCog Jul 2008]

two different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

Synonyms: bHLHe5; BMAL1; BMAL1c; JAP3; MOP3; PASD3; TIC





**Note:** WB application:Only overexpression results are guaranteed, not endogenous

**Protein Families:** Druggable Genome, Transcription Factors

**Protein Pathways:** Circadian rhythm - mammal

# **Product images:**

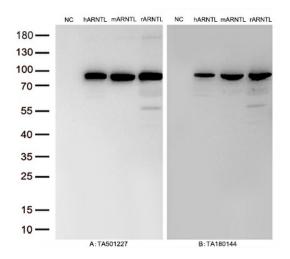
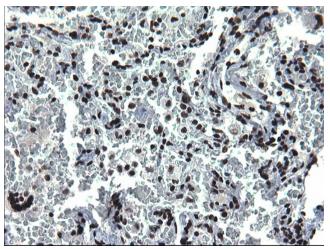
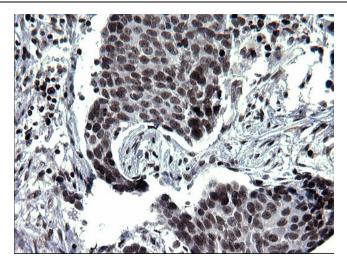


Figure A, Western blot analysis of overexpressed lysates (15ug per lane) from HEK293T cells transfected with empty plasmid ([PS100001], NC), human ARNTL plasmid ([RC207870], hARNTL), mouse ARNTL plasmid ([MR209553], mARNTL), rat ARNTL plasmid ([RR210481], rARNTL) using anti-ARNTL antibody [TA501227] (1:5000@1mg/ml). Figure B, Western blot analysis of the same samples as figure A with anti-DDK antibody ([TA180144], 1:5000@1mg/ml).

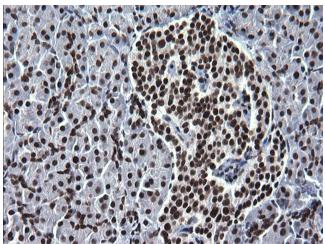


Immunohistochemical staining of paraffinembedded Human lung tissue within the normal limits using anti-ARNTL mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.

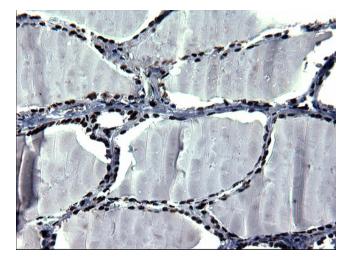




Immunohistochemical staining of paraffinembedded Carcinoma of Human lung tissue using anti-ARNTL mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.

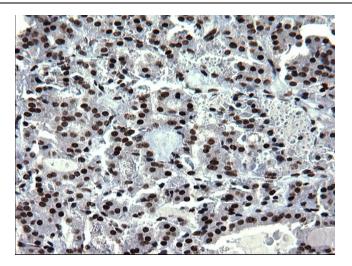


Immunohistochemical staining of paraffinembedded Human pancreas tissue within the normal limits using anti-ARNTL mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.

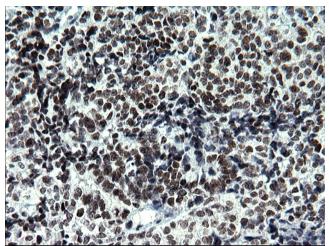


Immunohistochemical staining of paraffinembedded Human thyroid tissue within the normal limits using anti-ARNTL mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.

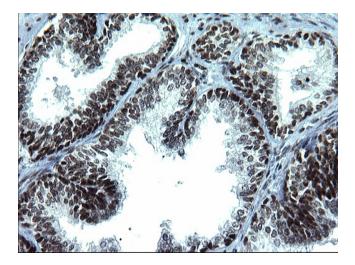




Immunohistochemical staining of paraffinembedded Carcinoma of Human thyroid tissue using anti-ARNTL mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.

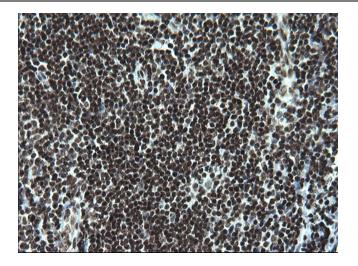


Immunohistochemical staining of paraffinembedded Adenocarcinoma of Human endometrium tissue using anti-ARNTL mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.

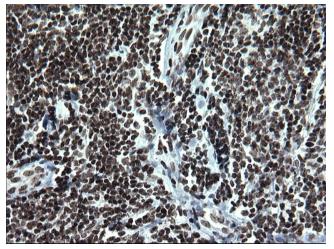


Immunohistochemical staining of paraffinembedded Human prostate tissue within the normal limits using anti-ARNTL mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.





Immunohistochemical staining of paraffinembedded Human lymph node tissue within the normal limits using anti-ARNTL mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



Immunohistochemical staining of paraffinembedded Human lymphoma tissue using anti-ARNTL mouse monoclonal antibody. Heatinduced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.