

## Product datasheet for **TA501277M**

### **BMAL1 (ARNTL) Mouse Monoclonal Antibody [Clone ID: OTI3G9]**

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI3G9
Applications:	FC, IF, WB
Recommended Dilution:	WB 1:500~1000, IF 1:100, FLOW 1:100
Reactivity:	Human, Dog, Rat, Mouse
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:	<a href="#">NP_001169</a> <a href="#">Entrez Gene 11865 Mouse</a> <a href="#">Entrez Gene 29657 Rat</a> <a href="#">Entrez Gene 476860 Dog</a> <a href="#">Entrez Gene 406 Human</a> <a href="#">O00327</a>
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 rhythm-associated genes. Three transcript variants encoding two different isoforms have been found for this gene. [provided by RefSeq]


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**Synonyms:** bHLHe5; BMAL1; BMAL1c; JAP3; MOP3; PASD3; TIC  
**Protein Families:** Druggable Genome, Transcription Factors  
**Protein Pathways:** Circadian rhythm - mammal

### Product images:

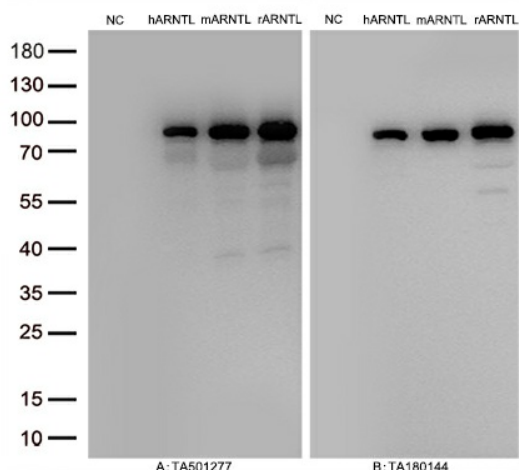
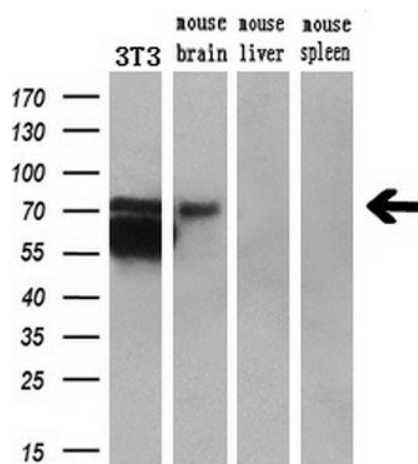
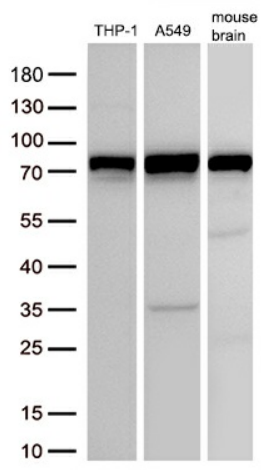


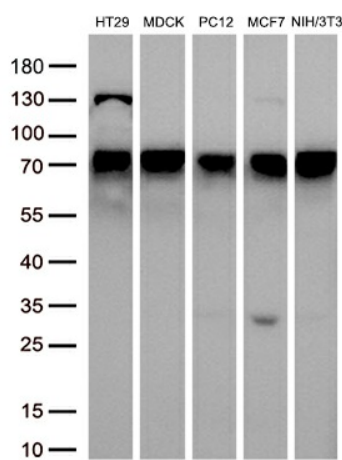
Figure A, Western blot analysis of overexpressed lysates (15ug per lane) from HEK293T cells transfected with empty plasmid ([PS100001], NC), human ARNTL plasmid ([RC207870], hARNTL), mouse ARNTL plasmid ([MR209553], mARNTL), rat ARNTL plasmid ([RR210481], rARNTL) using anti-ARNTL antibody [TA501277] (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).



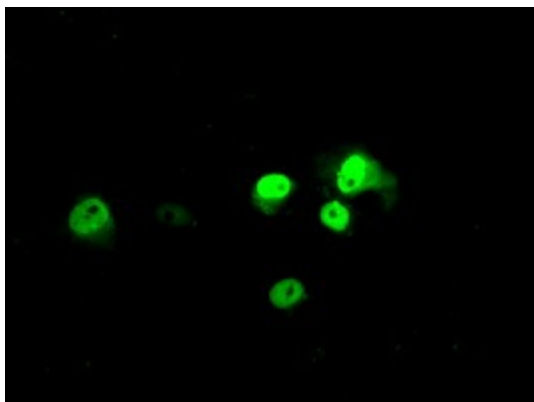
Western blot analysis of extracts (10ug) from a mouse cell line and 3 different mouse tissues by using anti-ARNTL monoclonal antibody (1:200).



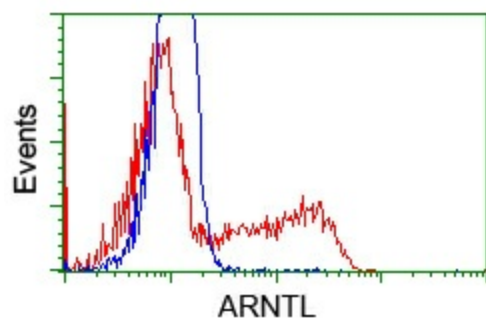
Western blot analysis of extracts (50ug per lane) from 2 different cell lines and 1 tissue lysates by using anti-ARNTL antibody([TA501277],1:2000@1mg/ml).



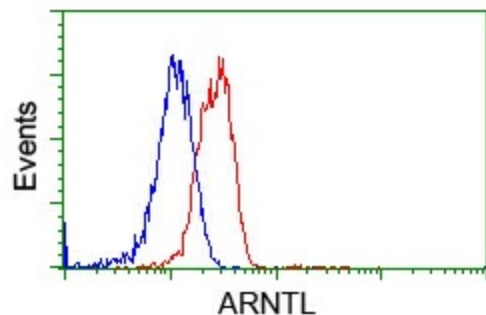
Western blot analysis of extracts (30ug per lane) from 5 different cell lines lysates by using anti-ARNTL antibody([TA501277],1:1000@1mg/ml).



Anti-ARNTL mouse monoclonal antibody ([TA501277]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY ARNTL ([RC207870]).



HEK293T cells transfected with either [RC207870] overexpress plasmid (Red) or empty vector control plasmid (Blue) were immunostained by anti-ARNTL antibody ([TA501277]), and then analyzed by flow cytometry.



Flow cytometric Analysis of Jurkat cells, using anti-ARNTL antibody ([TA501277]), (Red), compared to a nonspecific negative control antibody (TA50011), (Blue).