

Product datasheet for **TA501229S**

BMAL1 (ARNTL) Mouse Monoclonal Antibody [Clone ID: OTI1D1]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI1D1
Applications:	FC, IF, IHC, WB
Recommended Dilution:	WB 1:500, IF 1:100, FLOW 1:100
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 Mouse Entrez Gene 29657 Rat Entrez Gene 406 Human O00327
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]
Synonyms:	bHLHe5; BMAL1; BMAL1c; JAP3; MOP3; PASD3; TIC

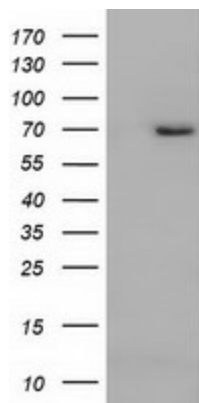


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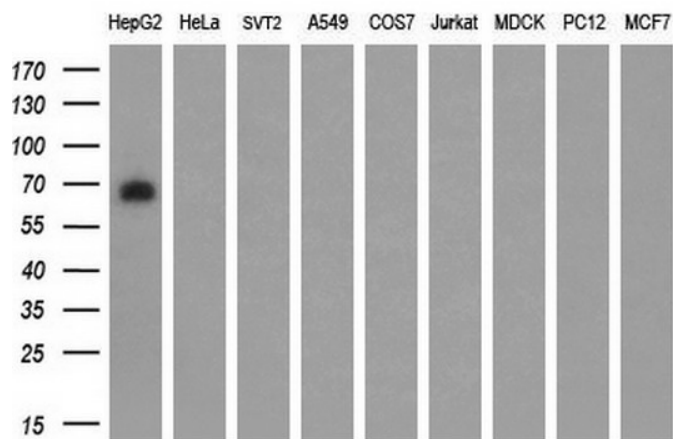
Protein Families: Druggable Genome, Transcription Factors

Protein Pathways: Circadian rhythm - mammal

Product images:



HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY ARNTL ([RC207870], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-ARNTL. Positive lysates [LY400474] (100ug) and [LC400474] (20ug) can be purchased separately from OriGene.



Western blot analysis of extracts (35ug) from 9 different cell lines by using anti-ARNTL monoclonal antibody (HepG2: human; HeLa: human; SVT2: mouse; A549: human; COS7: monkey; Jurkat: human; MDCK: canine; PC12: rat; MCF7: human) (1:200).

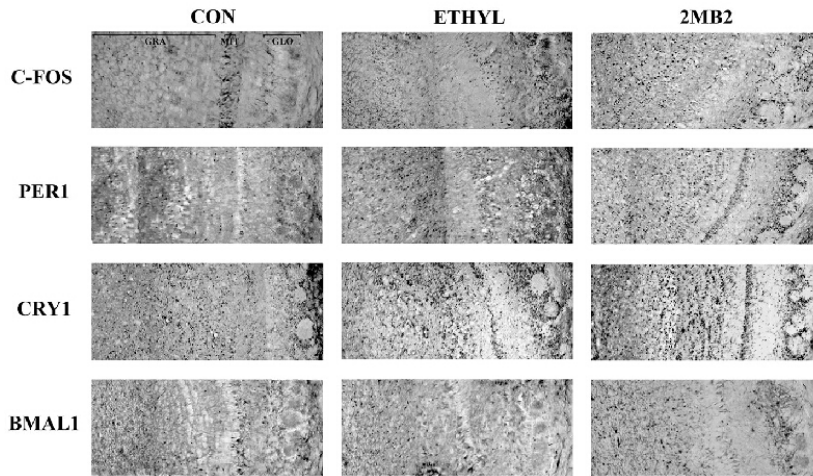
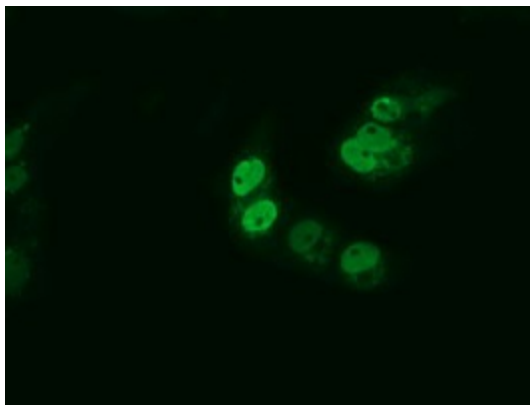
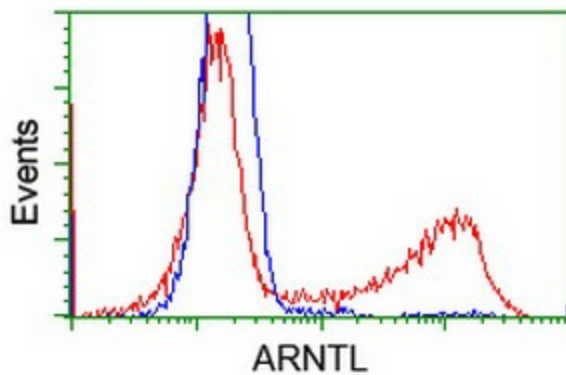


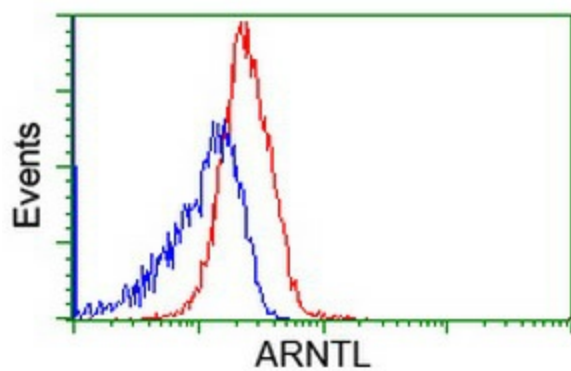
Figure from citation: Immunohistochemistry of ARNTL (BMAL1) protein level by using anti-ARNTL antibody in coronal sections of the main olfactory bulb (MOB) portion of 7-day-old rabbits. Dilution: 1:200 [View Citation](#)



Anti-ARNTL mouse monoclonal antibody ([TA501229]) 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 ([TA501229]), and then analyzed by flow cytometry.



Flow cytometric Analysis of Jurkat cells, using anti-ARNTL antibody ([TA501229]), (Red), compared to a nonspecific negative control antibody (TA50011), (Blue).