Data Sheet (Cat.No.TMAB-00147)

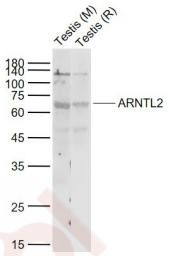
Anti-ARNTL2 Polyclonal Antibody

Product Details

Ig Type:	IgG
Reactivity:	Mouse,Rat (predicted:Human)
Molecular Weight:	Theoretical: 71 kDa. Actual: 65 kDa.
Purification:	Protein A purified

Applications

Verified Activity:	Sample: Lane 1: Testis (Mouse) Lysate at 40 µg Lane 2: Testis (Rat) Lysate at 40 µg Primary: Anti-ARNTL2 (TMAB-00147) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 71/63 kDa Observed band size: 65 kDa



Application:	WB
Recommended	WB: 1:500-2000

Properties

Stability & Storage:	Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	KLH conjugated synthetic peptide: human ARNTL2
Antigen Species:	Human
Gene ID:	56938
Uniprot ID:	Q8WYA1
Synonyms:	Brain and muscle ARNT like 2;MOP9;CLIF;ARNT L2;MGC124257;ARNTL2;Member of PAS protein 9;Transcription factor BMAL2;PASD 9;Aryl hydrocarbon receptor nuclear translocator like 2; bHLHe6;BMAL2;MGC149671;Basic-helix-loop-helix-PAS protein MOP9;PASD9;ARNTL 2;wu: fj90c09;BMAL 2;CYCLE-like factor;MGC149672;Transcription factor BMAL 2;MOP 9;MGC158186; BMA L2
Biology Area:	Cardiac metabolism,Transcription factors/regulators,HLH,Transcription Factors,Receptors

Research Background

BMAL2 is a 636 amino acid protein that localizes to the nucleus and contains one bHLH (basic helix-loop-helix) domain, one PAC (PAS-associated C-terminal) domain and two PAS (PER-ARNT-SIM) domains. Expressed at high levels in placenta and brain and at lower levels in liver, thymus, heart, lung and kidney, BMAL2 functions as a component of the circadian core oscillator, which includes a variety of proteins that work in tandem to activate the transcription of target genes. More specifically, BMAL2, when functioning as a component of the core oscillator, binds to the E-box element (3'-CACGTG-5') of target DNA, thus inducing transcription. Multiple isoforms of BMAL2 exist due to alternative splicing events.

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