BMAL1 Conjugated Antibody

Catalog No: #C49638

Package Size: #C49638-AF350 100ul #C49638-AF405 100ul #C49638-AF488 100ul #C49638-AF555 100ul #C49638-AF594 100ul #C49638-AF647 100ul #C49638-AF680 100ul #C49638-AF750 100ul #C49638-Biotin 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

Description

Product Name	BMAL1 Conjugated Antibody
Host Species	Rabbit
Clonality	Monoclonal
Species Reactivity	Hu, Ms, Rt
Immunogen Description	recombinant protein
Conjugates	Biotin AF350 AF405 AF488 AF555 AF594 AF647 AF680 AF750
Other Names	ARNT like protein 1 brain and muscle antibody Arntl antibody Aryl hydrocarbon receptor nuclear translocator like antibody Aryl hydrocarbon receptor nuclear translocator like protein 1 antibody Aryl hydrocarbon receptor nuclear translocator-like protein 1 antibody Basic helix loop helix PAS orphan MOP3 antibody Basic helix loop helix PAS protein MOP3 antibody Basic-helix-loop-helix-PAS protein MOP3 antibody bHLH PAS protein JAP3 antibody bHLH-PAS protein JAP3 antibody bHLHe5 antibody BMAL 1 antibody BMAL1_HUMAN antibody BMAL1c antibody Brain and muscle ARNT like 1 antibody Brain and muscle ARNT-like 1 antibody CG8727 PA antibody Class E basic helix-loop-helix protein 5 antibody cycle antibody JAP 3 antibody JAP3 antibody Member of PAS protein 3 antibody Member of PAS superfamily 3 antibody MGC47515 antibody MOP 3 antibody MOP3 antibody PAS domain-containing protein 3 antibody PASD 3 antibody PASD3 antibody TIC antibody
Accession No.	Swiss-Prot#:O00327
Uniprot	O00327
GeneID	406;
Excitation Emission	AF350: 346nm/442nm AF405: 401nm/421nm AF488: 493nm/519nm AF555: 555nm/565nm AF594: 591nm/614nm AF647: 651nm/667nm AF680: 679nm/702nm AF750: 749nm/775nm
Calculated MW	68 kDa
Formulation	0.01M Sodium Phosphate, 0.25M NaCl, pH 7.6, 5mg/ml Bovine Serum Albumin, 0.02% Sodium Azide
Storage	Store at 4°C in dark for 6 months

Application Details

Suggested Dilution:

AF350 conjugated: most applications: 1: 50 - 1: 250

AF405 conjugated: most applications: 1: 50 - 1: 250

AF488 conjugated: most applications: 1: 50 - 1: 250

AF555 conjugated: most applications: 1: 50 - 1: 250

AF594 conjugated: most applications: 1: 50 - 1: 250

AF647 conjugated: most applications: 1: 50 - 1: 250

AF680 conjugated: most applications: 1: 50 - 1: 250

AF750 conjugated: most applications: 1: 50 - 1: 250

Biotin conjugated: working with enzyme-conjugated streptavidin, most applications: 1: 50 - 1: 1,000

Background

Transcriptional activator which forms a core component of the circadian clock. Transcription factors, CLOCK or NPAS2 and ARNTL/BMAL1 or ARNTL2/BMAL2, form the positive limb of the feedback loop, act in the form of a heterodimer and activate the transcription of core clock genes and clock-controlled genes (involved in key metabolic processes), harboring E-box elements (5'-CACGTG-3') within their promoters. The core clock genes: PER1/2/3 and CRY1/2 which are transcriptional repressors form the negative limb of the feedback loop and interact with the CLOCK|NPAS2-ARNTL/BMAL1|ARNTL2/BMAL2 heterodimer inhibiting its activity and thereby negatively regulating their own expression. This heterodimer also activates nuclear receptors NR1D1/2 and RORA/B/G, which form a second feedback loop and which activate and repress ARNTL/BMAL1 transcription, respectively. ARNTL/BMAL1 positively regulates myogenesis and negatively regulates adipogenesis via the transcriptional control of the genes of the canonical Wnt signaling pathway.

Note: This product is for in vitro research use only