Datasheet for ABIN2810351

anti-ARNTL antibody (AA 151-250) (AbBy Fluor® 594)

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Overview

Quantity:	100 µL
Target:	ARNTL
Binding Specificity:	AA 151-250
Reactivity:	Human, Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ARNTL antibody is conjugated to AbBy Fluor® 594
Application:	Western Blotting (WB), Flow Cytometry (FACS), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human BMAL1
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Predicted Reactivity:	Dog,Cow,Sheep,Pig,Horse
Purification:	Purified by Protein A.

Target Details

Target:	ARNTL
Alternative Name:	BMAL1 (ARNTL Products)

Target Details

Background:	Synonyms: ARNT like protein 1 brain and muscle, ARNTL, Aryl hydrocarbon receptor nuclear translocator like, Aryl hydrocarbon receptor nuclear translocator like protein 1, Aryl hydrocarbon receptor nuclear translocator-like protein 1, Basic helix loop helix PAS orphan MOP3, bHLH PAS protein JAP3, bHLHe5, BMAL 1, BMAL1c, Brain and muscle ARNT like 1, cycle, JAP 3, JAP3, Member of PAS protein 3, Member of PAS superfamily 3, MOP3, PAS domain-containing protein 3, PASD 3, PASD3, TIC. Background: Component of the circadian clock oscillator which includes the CRY proteins, CLOCK or NPAS2, ARNTL or ARNTL2, CSNK1D and/or CSNK1E, TIMELESS and the PER proteins. Efficient DNA binding requires dimerization with another bHLH protein. Heterodimerization with CLOCK is required for E-box-dependent transactivation, for CLOCK nuclear translocation and degradation, and, for phosphorylation of both CLOCK and ARNTL. Interaction with PER and CRY proteins requires translocation to the nucleus. Interaction of the CLOCK-ARNTL heterodimer with PER or CRY inhibits transcription activation. Interacts with HSP90, with AHR in vitro, but not in vivo.
Gene ID:	406
Pathways:	Regulation of Lipid Metabolism by PPARalpha, Protein targeting to Nucleus, Warburg Effect

Application Details

Application Notes:	FCM 1:20-100
	IF(IHC-P) 1:50-200
	IF(IHC-F) 1:50-200
	IF(ICC) 1:50-200

Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 µg/µL
Buffer:	Aqueous buffered solution containing 0.01M TBS (pH 7.4) with 1 % BSA, 0.03 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.

Handling

Storage:	-20 °C
Storage Comment:	Store at -20°C. Aliquot into multiple vials to avoid repeated freeze-thaw cycles.
Expiry Date:	12 months