

PER2 Polyclonal Antibody

Catalog NumberPA5-19786

Product data sheet

Details		Species Reactivity	
Size	100 µg	Species reactivity	Human
Host/Isotope	Rabbit / IgG	Tested Applications	Dilution *
Class	Polyclonal		
Type	Antibody	Western Blot (WB)	1 µg/mL
Immunogen	Synthetic peptide conjugated to KLH derived from within residues 1 - 100 of Human PER2.	Immunocytochemistry (ICC/IF)	5 µg/mL
		* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Conjugate	Unconjugated		
Form	Liquid		
Concentration	1 mg/mL		
Storage Conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.		

Product specific information

PA5-19786 targets PER2 in IF and WB applications and shows reactivity with Human samples. The PA5-19786 immunogen is synthetic peptide conjugated to KLH derived from within residues 1 - 100 of Human PER2. PA5-19786 detects PER2 which has a predicted molecular weight of approximately 48 kDa.

Background/Target Information

PER2, also known as Period circadian protein homolog 2, is a mainly nuclear protein that shows nucleocytoplasmic shuttling which is effected by interaction with other circadian core oscillator proteins and/or by phosphorylation. PER2 belongs to the basic helix-loop-helix family of transcription factors and contains a PAC (PAS-associated C-terminal) domain and two PAS (PER-ARNT-SIM) domains. PER2 is a component of the circadian core oscillator, which includes the CRY proteins, CLOCK or NPAS2, BMAL1 or BMAL2, CSNK1D and/or CSNK1E, TIMELESS, and the PER proteins. This protein is thus essential for generating circadian rhythms and is a negative element in the circadian transcriptional loop which influences clock function by interacting with other circadian regulatory proteins and transporting them to the nucleus. Expression of PER2 is fairly wide spread with strong expression in skeletal muscle and pancreas and slight expression in lung. Defects in PER2 are a cause of familial advanced sleep-phase syndrome (FASPS).

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