

ARC Polyclonal Antibody

Catalog NumberPA5-19906

Product data sheet

Details		Species Reactivity	
Size	100 µg	Species reactivity	Human
Host/Isotope	Rabbit / IgG	Tested Applications	
Class	Polyclonal	Immunohistochemistry (IHC)	Dilution *5 µg/mL
Type	Antibody	Western Blot (WB)	1-2 µg/mL
Immunogen	A peptide corresponding to amino acids 191 to 208 of human ARC	* 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		
Purification	Antigen affinity chromatography		
Storage buffer	PBS		
Contains	0.02% sodium azide		
Storage Conditions	Maintain refrigerated at 2-8°C for up to 3 months. For long term storage store at -20°C		

Product specific information

In Western blot applications, this antibody detects a band at ~25kDa. A suggested positive control is Hela cell lysate. PA5-19906 can be used with blocking peptide PEP-0032.

Background/Target Information

ARC (also known as NOL3 - Nucleolar protein 3) has two isoforms. Isoform 1 is involved in RNA splicing. Isoform 2 functions as an apoptosis repressor that blocks multiple modes of cell death. ARC inhibits extrinsic apoptotic pathways two different ways. The first is by interacting with FAS and FADD upon FAS activation blocking death-inducing signaling complex (DISC) assembly. The second way is by interacting with CASP8 in a mitochondria localization-and phosphorylation-dependent manner, which in turn limits the amount of soluble CASP8 available for DISC-mediated activation. ARC also inhibits intrinsic apoptotic pathways in response to a wide range of stresses through interactions with BAX. This results in BAX inactivation and prevents mitochondrial dysfunction and release of pro-apoptotic factors. Mutations affecting the gene can results in myoclonus, familiam cortical.

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