

# RUSC1 Polyclonal Antibody

Catalog Number **PA5-20822**

**Product data sheet**

Details		Species Reactivity	
Size	100 µg	Species reactivity	Human, Mouse, Rat
Host/Isotope	Rabbit / IgG	<div>Tested Applications</div> <div>Dilution *</div> <div>Western Blot (WB)</div> <div>1 µg/mL</div> <div>* 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.</div>	
Class	Polyclonal		
Type	Antibody		
Immunogen	A 17 amino acid peptide from near the carboxy terminus of human RUSC1.		
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

A suggested positive control is A-20 cell lysate. PA5-20822 can be used with blocking peptide PEP-0936.

## Background/Target Information

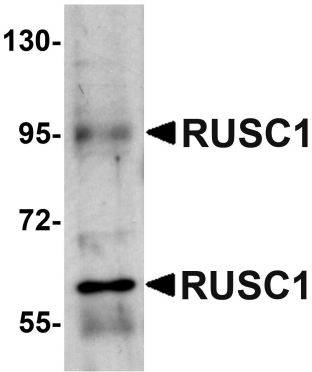
RUSC1, also known as NESCA, shares with the related protein RUSC2 a common domain structure of RUN, leucine zipper and SH3 domain in addition to over 30% amino acid identity. RUSC1 is an adapter protein that can bind to the TrkA receptor and is necessary in the NGF-induced neurite growth of PC12 cells. RUSC1 has also been shown to interact with Ikappa-B kinase- (IKK-) -gamma, the regulatory subunit of the IKK complex that is required for NF-kappa-B activation in many signaling pathways such as TNF-R or the TLR pathways. RUSC1 can also bind to the E3 ubiquitin ligase TRAF6, which then catalyzes RUSC1 polyubiquitination. Since overexpression of RUSC1 strongly inhibits TRAF6-mediated polyubiquitination of IKK-gamma, RUSC1 may be a link in the IKK-gamma-mediated NF-kappa-B activation pathway.

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**RUSC1 Antibody (PA5-20822) in WB**  
Western Blot analysis of RUSC1 in A-20 cell lysate with RUSC1 Polyclonal Antibody (Product # PA5-20822) at 1 µg /mL.

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