

SESN1 Polyclonal Antibody

Catalog NumberPA5-14679

Product data sheet

Details		Species Reactivity	
Size	400 µL	Species reactivity	Human, Mouse
Host/Isotope	Rabbit / IgG	Tested Applications	
Class	Polyclonal	Flow Cytometry (Flow)	1:10-1:50
Type	Antibody	Western Blot (WB)	1:1,000
Immunogen	KLH conjugated synthetic peptide between 312-341 amino acids from the C-terminal region of human Sestrin-1	* 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	2 mg/mL		
Purification	Ammonium sulfate precipitation, Size-exclusion - Dialysis		
Storage buffer	PBS		
Contains	0.09% sodium azide		
Storage Conditions	-20° C, Avoid Freeze/Thaw Cycles		

Product specific information

This antibody is predicted to react with non-human primate and Xenopus based on sequence homology.

Background/Target Information

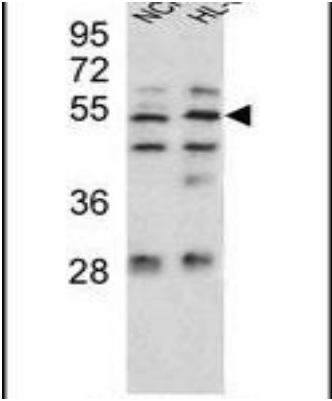
This gene encodes a member of the sestrin family. Sestrins are induced by the p53 tumor suppressor protein and play a role in the cellular response to DNA damage and oxidative stress. The encoded protein mediates p53 inhibition of cell growth by activating AMP-activated protein kinase, which results in the inhibition of the mammalian target of rapamycin protein. The encoded protein also plays a critical role in antioxidant defense by regenerating overoxidized peroxiredoxins, and the expression of this gene is a potential marker for exposure to radiation. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene.

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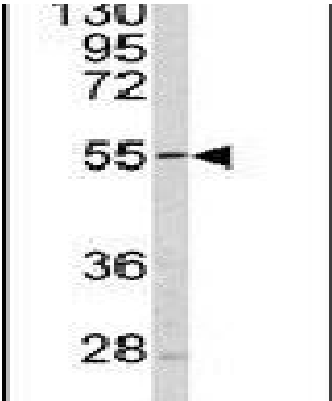
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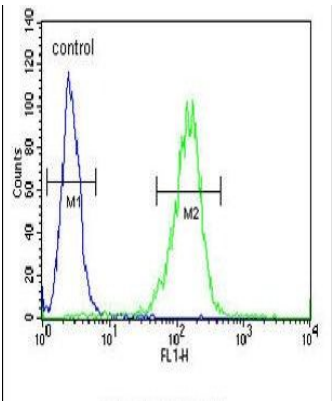
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**SESN1 Antibody (PA5-14679) in WB**  
Western blot analysis using a Sestrin-1 polyclonal antibody (Product # PA5-14679) in NCI-H460, HL-60 cell lysates (35 µg per lane).



**SESN1 Antibody (PA5-14679) in WB**  
Western blot analysis using a Sestrin-1 polyclonal antibody (Product # PA5-14679) in mouse heart tissue lysates (35 µg per lane).



**SESN1 Antibody (PA5-14679) in Flow**  
Flow cytometry analysis of NCI-H460 cells using a Sestrin-1 polyclonal antibody (Product # PA5-14679) (right) compared to a negative control cell (left) at a dilution of 1:10-50, followed by a FITC-conjugated goat anti-rabbit antibody

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