

For Research Use Only

# SPIRE1 Polyclonal antibody

Catalog Number: 11295-1-AP



## Basic Information

<b>Catalog Number:</b> 11295-1-AP	<b>GenBank Accession Number:</b> BC016825	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 500 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 56907	<b>Recommended Dilutions:</b> WB 1:500-1:1000 IHC 1:50-1:500
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q08AE8	
<b>Isotype:</b> IgG	<b>Full Name:</b> spire homolog 1 (Drosophila)	
<b>Immunogen Catalog Number:</b> AG1798	<b>Calculated MW:</b> 64 kDa	
	<b>Observed MW:</b> 50-60 kDa, 95 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, ELISA	<b>Positive Controls:</b>
<b>Species Specificity:</b> human, mouse	<b>WB :</b> HEK-293 cells, HeLa cells, SH-SY5Y cells
<b>Note-IHC:</b> suggested antigen retrieval with <b>TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	<b>IHC :</b> human lung cancer tissue, mouse stomach tissue

## Background Information

SPIRE1, Protein spire homolog 1, belongs to the family of Wiskott-Aldrich homology region-2 (WH2) proteins (PMID: 11747823). SPIRE1 acts as an actin nucleation factor, associated with the slow-growing pointed end of the new filament (PMID: 11747823, PMID: 21620703). SPIRE1 and FMN2 promote assembly of nuclear actin filaments in response to DNA damage in order to facilitate movement of chromatin and repair factors after DNA damage (PMID: 26287480).

## Storage

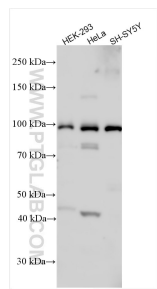
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol, pH7.3  
**Aliquoting is unnecessary for -20°C storage**

\*\*\* 20ul sizes contain 0.1% BSA

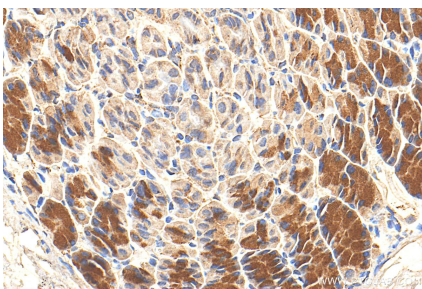
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

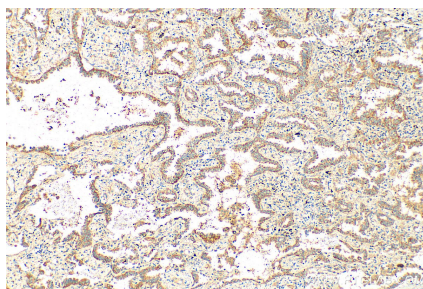
## Selected Validation Data



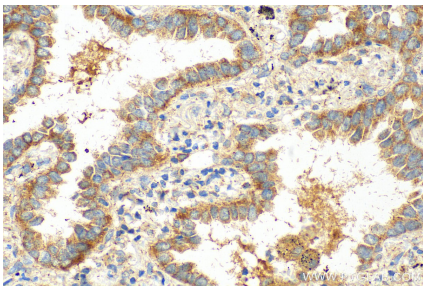
Various lysates were subjected to SDS PAGE followed by western blot with 11295-1-AP (SPIRE1 antibody) at dilution of 1:800 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse stomach tissue slide using 11295-1-AP (SPIRE1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 11295-1-AP (SPIRE1 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with .



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 11295-1-AP (SPIRE1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with .