

For Research Use Only

# Spexin Polyclonal antibody

Catalog Number:20467-1-AP



## Basic Information

<b>Catalog Number:</b> 20467-1-AP	<b>GenBank Accession Number:</b> BC004336	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 360 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 80763	<b>Recommended Dilutions:</b> IHC: 1:50-1:500 IF-P: 1:50-1:500
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q9BT56	
<b>Isotype:</b> IgG	<b>Full Name:</b> chromosome 12 open reading frame 39	
<b>Immunogen Catalog Number:</b> AG14304	<b>Calculated MW:</b> 116 aa, 13 kDa	

## Applications

<b>Tested Applications:</b> IHC, IF-P, ELISA	<b>Positive Controls:</b> IHC : human kidney tissue, mouse heart tissue IF-P : mouse heart tissue, mouse liver tissue
<b>Species Specificity:</b> human, mouse	

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

## Background Information

Spexin (SPX), also known as neuropeptide Q, is a novel and highly conserved neuroendocrine peptide discovered through bioinformatics. Spexin and its receptors (primarily galanin receptor types 2 and 3) are widely expressed throughout the body, including the central nervous system, gastrointestinal tract, adipose tissue, kidneys, and cardiovascular system. Research indicates that Spexin is a multifunctional regulatory peptide, with its most central role being in energy homeostasis and metabolic regulation. It functions to suppress appetite, reduce body weight, and improve insulin resistance and glucose metabolism, making it a potential biomarker and therapeutic target for metabolic diseases such as obesity and type 2 diabetes. Additionally, Spexin is involved in regulating various physiological and pathological processes, including pain perception, anxiety- and depression-like behaviors, cardiovascular function, and reproductive activities.

## Storage

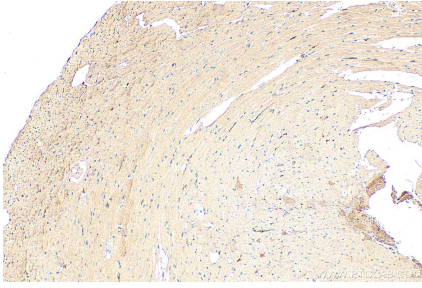
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol, pH7.3  
Aliquoting is unnecessary for -20°C storage

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

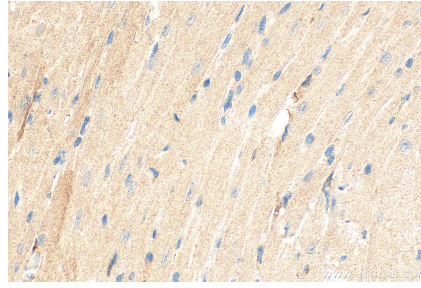
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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

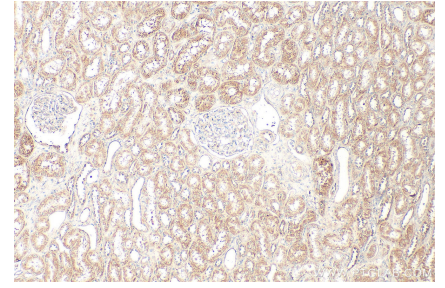
## Selected Validation Data



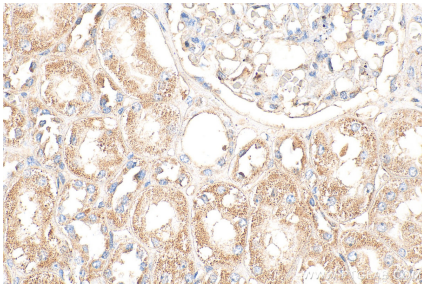
Immunohistochemical analysis of paraffin-embedded mouse heart tissue slide using 20467-1-AP (C12orf39 antibody) at dilution of 1:100 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



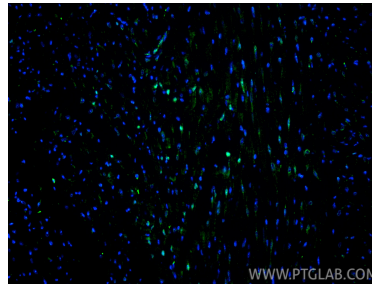
Immunohistochemical analysis of paraffin-embedded mouse heart tissue slide using 20467-1-AP (C12orf39 antibody) at dilution of 1:100 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



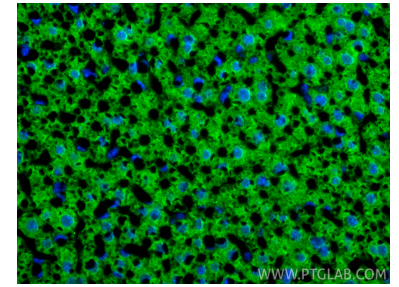
Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 20467-1-AP (Spexin antibody) at dilution of 1:100 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 20467-1-AP (Spexin antibody) at dilution of 1:100 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse heart tissue using C12orf39 antibody (20467-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse liver tissue using Spexin antibody (20467-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).