

For Research Use Only

# ANKRD2 Polyclonal antibody

Catalog Number: 11821-1-AP

Featured Product

10 Publications



## Basic Information

### Catalog Number:

11821-1-AP

### Size:

150ul, Concentration: 500 ug/ml by Nanodrop and 153 ug/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG2389

### GenBank Accession Number:

BC020817

### GeneID (NCBI):

26287

### UNIPROT ID:

Q9GZV1

### Full Name:

ankyrin repeat domain 2 (stretch responsive muscle)

### Calculated MW:

37 aa, 2 kDa

### Observed MW:

42 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate  
IHC 1:20-1:200  
IF/ICC 1:50-1:500

## Applications

### Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

### Cited Applications:

WB, IHC, IF

### Species Specificity:

human, mouse, rat

### Cited Species:

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**

### Positive Controls:

IP: mouse skeletal muscle tissue,

IHC: human kidney tissue, human lung tissue, human skeletal muscle tissue, human testis tissue, human brain tissue, human skin tissue

IF/ICC: HeLa cells,

## Background Information

ANKRD2 belongs to the conserved muscle ankyrin repeat protein (MARP) family. Expression of MARPs is induced in response to physiologic stress, injury, and hypertrophy. Together with Ankrd1/CARP and DARP, ANKRD2 are members of the MARP mechanosensing proteins that form a complex with titin (N2A)/calpain 3 protease/myopalladin. Ankrd2 is thought to have dual, structural and signaling roles, and could link the elastic I-band region as a stress sensor for transcriptional control in the nucleus

## Notable Publications

Author	Pubmed ID	Journal	Application
Holger Greschik	29168801	Cell Death Dis	IF
Silvia Angori	28531892	Cell Physiol Biochem	IHC
Junpeng Gao	34003819	PLoS BIOLOGY	WB

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

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)

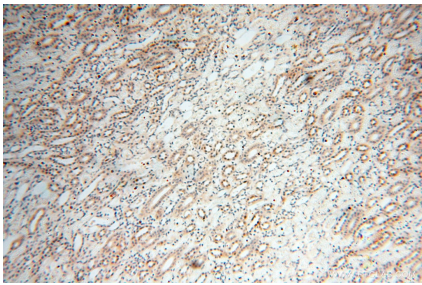
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

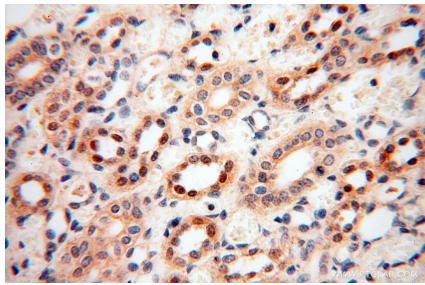
Selected Validation Data



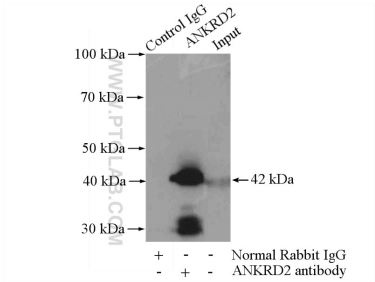
mouse skeletal muscle tissue were subjected to SDS PAGE followed by western blot with 11821-1-AP (ANKRD2 antibody) at dilution of 1:0 incubated at room temperature for 1.5 hours.



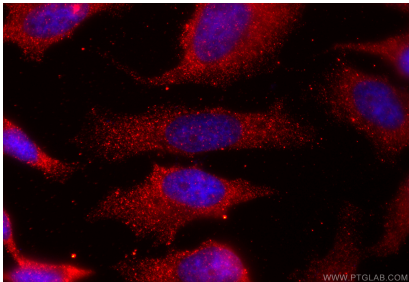
Immunohistochemical analysis of paraffin-embedded human kidney using 11821-1-AP (ANKRD2 antibody) at dilution of 1:100 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human kidney using 11821-1-AP (ANKRD2 antibody) at dilution of 1:100 (under 40x lens).



IP result of anti-ANKRD2 (IP:11821-1-AP, 4ug; Detection:11821-1-AP 1:500) with mouse skeletal muscle tissue lysate 3600ug.



Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using ANKRD2 antibody (11821-1-AP) at dilution of 1:200 and Coralite®594-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-4).