

For Research Use Only

# KANK1 Polyclonal antibody

Catalog Number: 29782-1-AP



## Basic Information

<b>Catalog Number:</b> 29782-1-AP	<b>GenBank Accession Number:</b> NM_015158	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 260 ug/ml	<b>GeneID (NCBI):</b> 23189	<b>Recommended Dilutions:</b> WB 1:500-1:2000 IHC 1:50-1:500 IF-P 1:50-1:500
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q14678	
<b>Isotype:</b> IgG	<b>Full Name:</b> KN motif and ankyrin repeat domains	
<b>Immunogen Catalog Number:</b> AG31422	<b>1</b>	
	<b>Calculated MW:</b> 147KD	
	<b>Observed MW:</b> 130-200 kDa	

## Applications

### Tested Applications:

WB, IHC, IF-P, ELISA

### Species Specificity:

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:

WB : HEK-293T cells,

IHC : mouse heart tissue,

IF-P : mouse kidney tissue,

## Background Information

KANK1 (KN motif and ankyrin repeat domain-containing protein 1) is involved in the control of cytoskeleton formation by regulating actin polymerization, inhibiting actin fiber formation and cell migration (PMID: 25961457). It inhibits RhoA activity, the formation of lamellipodia but not of filopodia (PMID: 25961457, PMID: 5961457). It also inhibits fibronectin-mediated cell spreading and regulates Rac signaling pathways (PMID: 25961457). Talin-KANK1 interaction controls the recruitment of cortical microtubule stabilizing complexes to focal adhesions (PMID: 27410476). KANK1 can be detected 130-200 kDa (PMID: 15823577, PMID: 33253712, PMID: 35805114).

## 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

For technical support and original validation data for this product please contact:

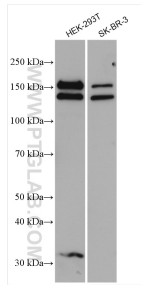
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

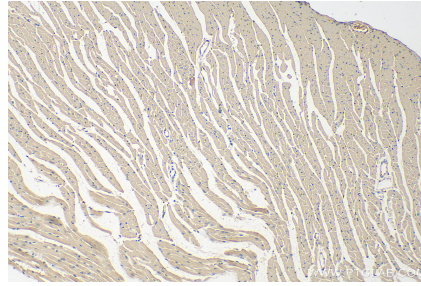
W: [ptgcn.com](http://ptgcn.com)

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

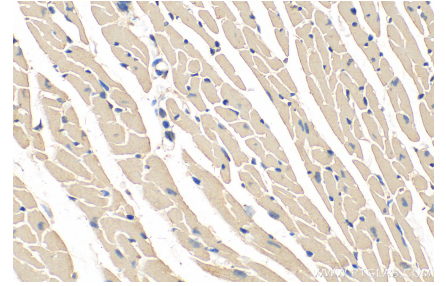
## Selected Validation Data



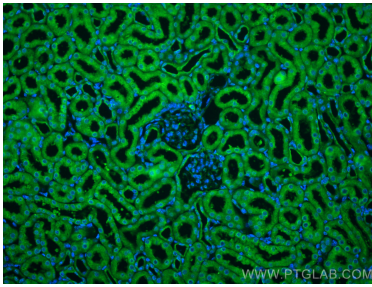
Various lysates were subjected to SDS PAGE followed by western blot with 29782-1-AP (KANK1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse heart tissue slide using 29782-1-AP (KANK1 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse heart tissue slide using 29782-1-AP (KANK1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse kidney tissue using KANK1 antibody (29782-1-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).