

For Research Use Only

KANK1 Polyclonal antibody

Catalog Number: 29782-1-AP



Basic Information

Catalog Number: 29782-1-AP	GenBank Accession Number: NM_015158	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 400 ug/ml by Nanodrop;	GeneID (NCBI): 23189	Recommended Dilutions: WB 1:500-1:2000
Source: Rabbit	UNIPROT ID: Q14678	IHC 1:50-1:500
Isotype: IgG	Full Name: KN motif and ankyrin repeat domains 1	IF-P 1:50-1:500
Immunogen Catalog Number: AG31422	Calculated MW: 147KD	
	Observed MW: 130-200 kDa	

Applications

Tested Applications: WB, IHC, IF-P, ELISA	Positive Controls:
Species Specificity: human, mouse	WB : HEK-293T cells,
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	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

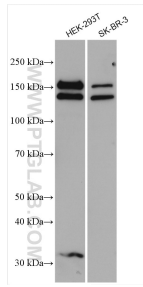
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

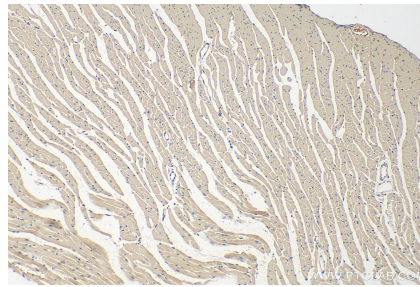
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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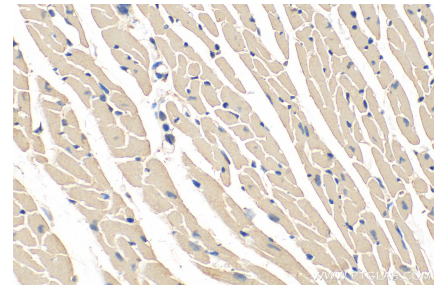
Selected Validation Data



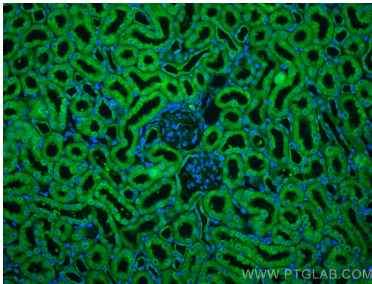
Various lysates were subjected to SDS PAGE followed by western blot with 29782-1-AP (KANK1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



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).