

KANK3 Antibody

Catalog # ASC11648

Product Information

Application	WB, E, IHC-P
Primary Accession	Q6NY19
Other Accession	NP_940873 , 157504499
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	85893
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	KANK3 Antibody can be used for detection of KANK3 by Western blot starting at 1 µg/mL.

Additional Information

Gene ID	256949
Other Names	KN motif and ankyrin repeat domain-containing protein 3, Ankyrin repeat domain-containing protein 47, KANK3, ANKRD47
Target/Specificity	KANK3; Two alternatively spliced transcript variants encoding different isoforms have been identified.
Reconstitution & Storage	KANK3 antibody can be stored at 4°C for three months and -20°C, stable for up to one year.
Precautions	KANK3 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	KANK3 (HGNC:24796)
Synonyms	ANKRD47
Function	May be involved in the control of cytoskeleton formation by regulating actin polymerization.
Tissue Location	Strongly expressed in breast, liver, lung, skeletal muscle and kidney.

Background

KANK3 Antibody: Ankyrins are membrane adaptor molecules that play important roles in the control of cytoskeleton formation by regulating actin polymerization. Like other members of the KANK family, KANK3 (KN motif and ankyrin repeat domain-containing protein 3), is thought to play a role in the formation of actin stress fibers. In zebrafish, the homolog of KANK3 interacts with the adaptor protein Numb, a protein implicated in multiple basic cellular processes, and is essential for epidermal integrity and neurulation, suggesting that KANK3 may play a similar role in higher organisms.

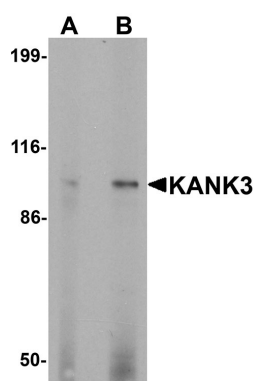
References

Zhu Y, Kakinuma N, Wang Y, et al. Kank proteins: a new family of ankyrin-repeat domain containing proteins. *Biochim. Biophys. Acta* 2008; 1780:128-33.

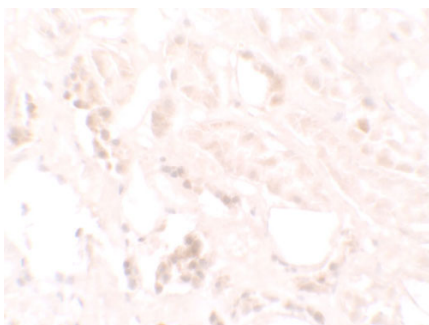
Roy BC, Kakinuma N, Kiyama R. Kank attenuates actin remodeling by preventing interaction between IRSp53 and Rac1. *J. Cell Biol.* 2009; 184:253-67.

Boggetti B, Jasik J, Takamiya M, et al. NBP, a zebrafish homolog of human Kank3, is a novel Numb interactor essential for epidermal integrity and neurulation. *Dev. Biol.* 2012; 365:164-74.

Images



Western blot analysis of KANK3 in A431 cell lysate with KANK3 antibody at (A) 1 and (B) 2 $\mu\text{g/mL}$.



Immunohistochemistry of KANK3 in human kidney tissue with KANK3 antibody at 2.5 $\mu\text{g/mL}$.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.