

**KANK2 Antibody (C-Terminus)**  
**Rabbit Polyclonal Antibody**  
**Catalog # ALS16757****Specification**

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**KANK2 Antibody (C-Terminus) - Product Information**

Application	IHC, IF, WB
Primary Accession	<a href="#">Q63ZY3</a>
Other Accession	<a href="#">25959</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	91174

**KANK2 Antibody (C-Terminus) - Additional Information****Gene ID** 25959**Other Names**

KANK2, Ankyrin repeat domain 25, KIAA1518, ANKRD25, SIP, SRC-1-interacting protein, SRC1-interacting protein, MXRA3, SRC-1 interacting protein

**Target/Specificity**

Two alternatively spliced transcript variants encoding different isoforms have been identified.

**Reconstitution & Storage**

PBS, 0.02% sodium azide. Long term: -20°C; Short term: +4°C. Avoid repeat freeze-thaw cycles.

**Precautions**

KANK2 Antibody (C-Terminus) is for research use only and not for use in diagnostic or therapeutic procedures.

**KANK2 Antibody (C-Terminus) - Protein Information****Name** KANK2**Synonyms** ANKRD25, KIAA1518, MXRA3, SIP**Function**

Involved in transcription regulation by sequestering in the cytoplasm nuclear receptor coactivators such as NCOA1, NCOA2 and NCOA3 (PubMed:[17476305](http://www.uniprot.org/citations/17476305)). Involved in regulation of caspase-independent apoptosis by sequestering the proapoptotic factor AIFM1 in mitochondria (PubMed:[22371500](http://www.uniprot.org/citations/22371500)). Pro-apoptotic stimuli can induce its proteasomal degradation allowing the translocation of AIFM1 to the nucleus to induce apoptosis (PubMed:[22371500](http://www.uniprot.org/citations/22371500)). Involved in

the negative control of vitamin D receptor signaling pathway (PubMed:<a href="http://www.uniprot.org/citations/24671081" target="\_blank">24671081</a>). Involved in actin stress fibers formation through its interaction with ARHGDIA and the regulation of the Rho signaling pathway (PubMed:<a href="http://www.uniprot.org/citations/17996375" target="\_blank">17996375</a>, PubMed:<a href="http://www.uniprot.org/citations/25961457" target="\_blank">25961457</a>). May thereby play a role in cell adhesion and migration, regulating for instance podocytes migration during development of the kidney (PubMed:<a href="http://www.uniprot.org/citations/25961457" target="\_blank">25961457</a>). Through the Rho signaling pathway may also regulate cell proliferation (By similarity).

**Cellular Location**

Cytoplasm. Mitochondrion

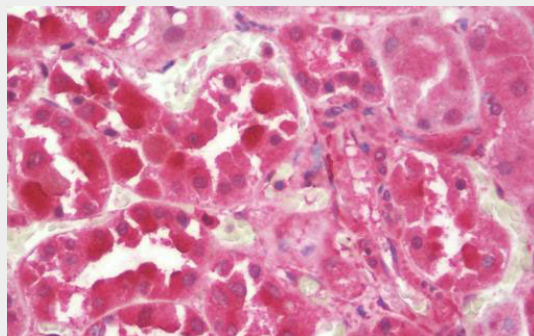
**Tissue Location**

Strongly expressed in cervix, colon, heart, kidney and lung. Expressed in kidney glomerular podocytes and mesangial cells (at protein level).

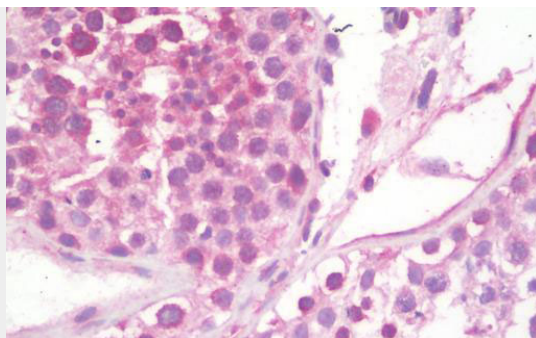
**KANK2 Antibody (C-Terminus) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

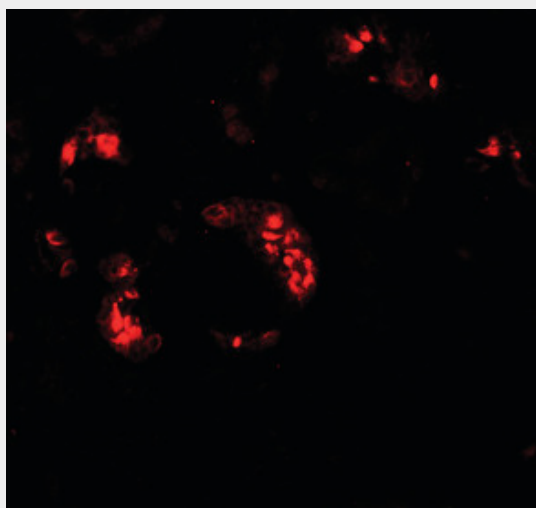
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**KANK2 Antibody (C-Terminus) - Images**

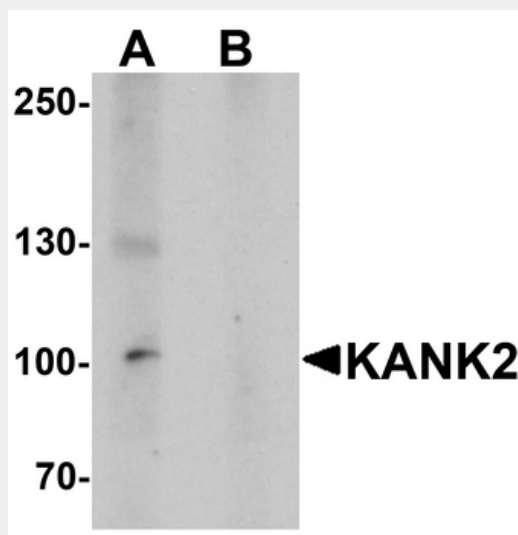
Anti-KANK2 antibody IHC staining of human kidney.



Anti-KANK2 antibody IHC staining of human testis.



Immunofluorescence of KANK2 in human kidney tissue with KANK2 antibody at 20 ug/ml.



Western blot analysis of KANK2 in mouse brain tissue lysate with KANK2 antibody at 1 ug/ml in...

#### **KANK2 Antibody (C-Terminus) - Background**

Involved in transcription regulation by sequestering nuclear receptor coactivators, such as NCOA1, NCOA2 and NCOA3, in the cytoplasm; the function is deregulated by phosphorylation. Involved in the negative control of vitamin D receptor signaling pathway (PubMed:24671081). May be involved in the control of cytoskeleton formation by regulating actin polymerization. Involved in regulation of caspase-independent apoptosis; proposed to sequester AIFM1 in mitochondria and apoptotic stimuli

lead to its proteasomal degradation allowing the release of AIFM1 to the nucleus (PubMed:22371500). May be involved in promotion of cell proliferation (By similarity).

#### **KANK2 Antibody (C-Terminus) - References**

Zhang Y.,et al.EMBO J. 26:2645-2657(2007).

Zhu Y.,et al.Submitted (NOV-2006) to the EMBL/GenBank/DDBJ databases.

Nagase T.,et al.DNA Res. 7:143-150(2000).

Mural R.J.,et al.Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.

Ota T.,et al.Nat. Genet. 36:40-45(2004).