

KANK2 Blocking Peptide (Center)
Synthetic peptide
Catalog # BP21691c**Specification**

KANK2 Blocking Peptide (Center) - Product InformationPrimary Accession [Q63ZY3](#)**KANK2 Blocking Peptide (Center) - Additional Information****Gene ID** 25959**Other Names**

KN motif and ankyrin repeat domain-containing protein 2, Ankyrin repeat domain-containing protein 25, Matrix-remodeling-associated protein 3, SRC-1-interacting protein, SIP, SRC-interacting protein, SRC1-interacting protein, KANK2, ANKRD25, KIAA1518, MXRA3, SIP

Target/Specificity

The synthetic peptide sequence is selected from aa 363-376 of HUMAN KANK2

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

KANK2 Blocking Peptide (Center) - 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). Involved in regulation of caspase-independent apoptosis by sequestering the proapoptotic factor AIFM1 in mitochondria (PubMed:22371500). Pro-apoptotic stimuli can induce its proteasomal degradation allowing the translocation of AIFM1 to the nucleus to induce apoptosis (PubMed:22371500). Involved in the negative control of vitamin D receptor signaling pathway (PubMed:24671081). Involved in actin stress fibers formation through its interaction with ARHGDI1 and the regulation of the Rho

signaling pathway (PubMed:17996375, PubMed:25961457). May thereby play a role in cell adhesion and migration, regulating for instance podocytes migration during development of the kidney (PubMed:25961457). 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 Blocking Peptide (Center) - Protocols

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

- [Blocking Peptides](#)

KANK2 Blocking Peptide (Center) - Images**KANK2 Blocking Peptide (Center) - 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 Blocking Peptide (Center) - 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).