KANK1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	KANK1, Polyclonal Antibody
Full Product Name	KANK1 Antibody, HRP Conjugated
Product Gene Name	anti-KANK1 antibody
Product Synonym Names	KN motif and ankyrin repeat domain-containing protein 1; Ankyrin repeat domain-containing protein 15; Kidney ankyrin repeat-containing protein; KANK1; ANKRD15; KANK; KIAA0172
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid
Purity/Purification	>95% Protein G Purified
Preparation and Storage	Upon receipt, store at-20 degree C or-80 degree C. Avoid repeated freeze.
Matching Pairs	Unconjugated Antibody: KANK1 (MBS7113890) HRP Conjugated Antibody: KANK1 (MBS7113891)
Molecular Weight	129,782 Da
3D Structure	ModBase 3D Structure for Q14678
Immunogen Species	Human
Immunogen	Recombinant Human KN motif and ankyrin repeat domain-containing protein 1 protein (66-255AA)
Conjugate	HRP
Preservative	0.03% Proclin 300
Constituents	50% Glycerol, 0.01M PBS, pH 7.4
Product Categories/Family for anti-KANK1 antibody	Signal Transduction
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-KANK1 antibody	ELISA (EIA)
Related Product Information for anti-KANK1 antibody	MBS7113891 is an antibody targeting KANK1. Also known as KANK1 Antibody, HRP Conjugated. Reactive in Human. Host: Rabbit.
Other Notes	Small volumes of anti-KANK1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for KANK1. It may not necessarily be applicable to this product.

NCBI GI #	379056374
NCBI GeneID	23189
NCBI Accession #	NP_001243805.1
UniProt Primary Accession #	Q14678
UniProt Secondary Accession #	Q5W0W0; Q8IY65; Q8WX74; A2A2W8; D3DRH3
UniProt Related Accession #	Q14678
GenBank Nucleotide #	NM_001256876.2
NCBI Official Full Name	KN motif and ankyrin repeat domain-containing protein 1 isoform L
NCBI Official Synonym Full Names	KN motif and ankyrin repeat domains 1
NCBI Official Symbol	KANK1
NCBI Official Synonym Symbols	KANK; CPSQ2; ANKRD15
UniProt Protein Name	KN motif and ankyrin repeat domain-containing protein 1
UniProt Synonym Protein Names	Ankyrin repeat domain-containing protein 15; Kidney ankyrin repeat-containing protein
Protein Family	KN motif and ankyrin repeat domain-containing protein
UniProt Gene Name	KANK1
UniProt Synonym Gene Names	ANKRD15; KANK; KIAA0172
NCBI Protein Information	KN motif and ankyrin repeat domain-containing protein 1
NCBI Summary for KANK1	The protein encoded by this gene belongs to the Kank family of proteins, which contain multiple ankyrin repeat domains. This family member functions in cytoskeleton formation by regulating actin polymerization. This gene is a candidate tumor suppressor for renal cell carcinoma. Mutations in this gene cause cerebral palsy spastic quadriplegic type 2, a central nervous system development disorder. A t(5;9) translocation results in fusion of the platelet-derived growth factor receptor beta gene (PDGFRB) on chromosome 5 with this gene in a myeloproliferative neoplasm featuring severe thrombocythemia. Alternative splicing of this gene results in multiple transcript variants. A related pseudogene has been identified on chromosome 20. [provided by RefSeq, Dec 2014]
UniProt Comments for KANK1	Involved in the control of cytoskeleton formation by regulating actin polymerization. Inhibits actin fiber formation and cell migration (PubMed:25961457). Inhibits RhoA activity; the function involves phosphorylation through PI3K/Akt signaling and may depend on the competetive interaction with 14-3-3 adapter proteins to sequester them from active complexes (PubMed:25961457). Inhibits the formation of lamellipodia but not of filopodia; the function may depend on the competetive interaction with BAIAP2 to block its association with activated RAC1 (PubMed:25961457). Inhibits fibronectin-mediated cell spreading; the function is partially mediated by BAIAP2. Inhibits neurite outgrowth. Involved in the establishment and persistence of cell polarity during directed cell movement in wound healing. In the nucleus, is involved in beta-catenin-dependent activation of transcription. Potential tumor suppressor for renal cell carcinoma. Regulates Rac signaling pathways (PubMed:25961457).
Research Articles on KANK1	**1.** Several key residues (i.e. Thr-1147, Leu-1152, Leu-1153, and Tyr-1154) at the C-terminal half of the KIF21A KBD peptide contact with the hydrophobic patch formed by Tyr-1176, Met-1209, Leu-1210, Leu-1213, and Leu-1248 from KANK1.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.

Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/polyclonal-human-antibody/kank1/7113891