10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

MKKS Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP16289b

Product Information

Application	WB, E
Primary Accession	Q9NPJ1
Other Accession	NP_740754.1, NP_061336.1
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB35629
Calculated MW	62342
Antigen Region	408-437

Additional Information

Gene ID	8195
Other Names	McKusick-Kaufman/Bardet-Biedl syndromes putative chaperonin, Bardet-Biedl syndrome 6 protein, MKKS, BBS6
Target/Specificity	This MKKS antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 408-437 amino acids from the C-terminal region of human MKKS.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	MKKS Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	MKKS (HGNC:7108)
Function	Probable molecular chaperone that assists the folding of proteins upon ATP hydrolysis (PubMed:20080638). Plays a role in the assembly of BBSome, a complex involved in ciliogenesis regulating transports vesicles to the cilia

	(PubMed:20080638). May play a role in protein processing in limb, cardiac and reproductive system development. May play a role in cytokinesis (PubMed:28753627).
Cellular Location	Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Cytoplasm, cytosol Nucleus. Note=The majority of the protein resides within the pericentriolar material (PCM), a proteinaceous tube surrounding centrioles. During interphase, the protein is confined to the lateral surfaces of the PCM but during mitosis it relocalizes throughout the PCM and is found at the intercellular bridge. The MKSS protein is highly mobile and rapidly shuttles between the cytosol and centrosome
Tissue Location	Widely expressed in adult and fetal tissues.

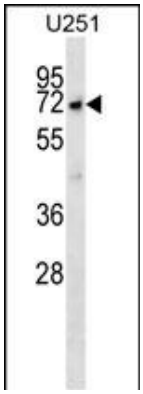
Background

MKKS is a protein with sequence similarity to the chaperonin family. The encoded protein may have a role in protein processing in limb, cardiac and reproductive system development. Mutations in this gene have been observed in patients with Bardet-Biedl syndrome type 6 and McKusick-Kaufman syndrome. Two transcript variants encoding the same protein have been identified for this gene.

References

Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010)
Billingsley, G., et al. J. Med. Genet. 47(7):453-463(2010)
Corpeleijn, E., et al. Obesity (Silver Spring) 18(7):1369-1377(2010)
Mukherjee, K., et al. BMC Evol. Biol. 10, 64 (2010) :
Talmud, P.J., et al. Am. J. Hum. Genet. 85(5):628-642(2009)

Images



MKKS Antibody (C-term) (Cat. #AP16289b) western blot analysis in U251 cell line lysates (35ug/lane).This demonstrates the MKKS antibody detected the MKKS protein (arrow).