

Product datasheet

Anti-MKKS antibody ab254886

6 Images

Overview

Product name	Anti-MKKS antibody
Description	Rabbit polyclonal to MKKS
Host species	Rabbit
Tested applications	Suitable for: WB, ICC/IF, IHC-P
Species reactivity	Reacts with: Human Predicted to work with: Orangutan 
Immunogen	Recombinant fragment corresponding to Human MKKS aa 200-350. Database link: Q9NPJ1  Run BLAST with  Run BLAST with
Positive control	WB: RT4 and U-251 MG cell lysate. ICC/IF: U-2 OS cells. IHC-P: Human urinary bladder, colon, kidney and testis tissue.
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.20 Preservative: 0.02% Sodium azide Constituents: 40% Glycerol (glycerin, glycerine), PBS
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab254886 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use a concentration of 0.04 - 0.4 µg/ml. Predicted molecular weight: 27 kDa.
ICC/IF		Use a concentration of 0.25 - 2 µg/ml. Fixation/Permeabilization: PFA/Triton X-100.
IHC-P		1/50 - 1/200. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

Target

Function Probable molecular chaperone. Assists the folding of proteins upon ATP hydrolysis. As part of the BBS/CCT complex may play a role in the assembly of BBSome, a complex involved in ciliogenesis regulating transports vesicles to the cilia. May play a role in protein processing in limb, cardiac and reproductive system development. May play a role in cytokinesis.

Tissue specificity Widely expressed in adult and fetal tissues.

Involvement in disease Defects in MKKS are the cause of McKusick-Kaufman syndrome (MKKS) [MIM:236700]. MKKS is an autosomal recessive developmental disorder. It is characterized by hydrometrocolpos, postaxial polydactyly and congenital heart defects.

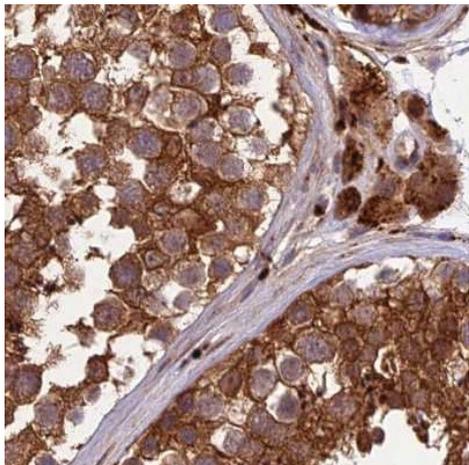
Defects in MKKS are the cause of Bardet-Biedl syndrome type 6 (BBS6) [MIM:209900]. Bardet-Biedl syndrome (BBS) is a genetically heterogeneous, autosomal recessive disorder characterized by usually severe pigmentary retinopathy, early onset obesity, polydactyly, hypogenitalism, renal malformation and mental retardation. Secondary features include diabetes mellitus, hypertension and congenital heart disease. A relatively high incidence of BBS is found in the mixed Arab populations of Kuwait and in Bedouin tribes throughout the Middle East, most likely due to the high rate of consanguinity in these populations and a founder effect.

Sequence similarities Belongs to the TCP-1 chaperonin family.

Domain The substrate-binding apical domain region is sufficient for centrosomal association.

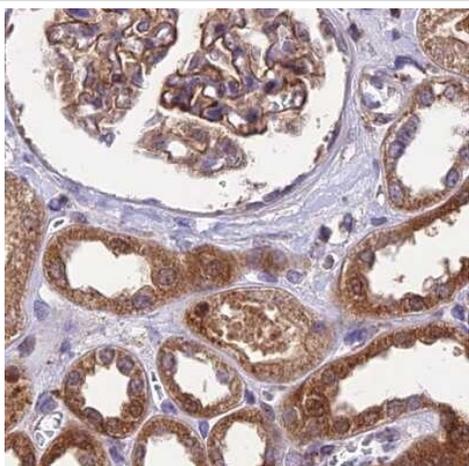
Cellular localization Cytoplasm > cytoskeleton > centrosome. Cytoplasm > cytosol. The majority of the protein resides within the pericentriolar material (PCM), a proteinaceous tube surrounding centrioles. During interphase, the protein is confined to the lateral surfaces of the PCM but during mitosis it relocates throughout the PCM and is found at the intercellular bridge. The MKSS protein is highly mobile and rapidly shuttles between the cytosol and centrosome.

Images



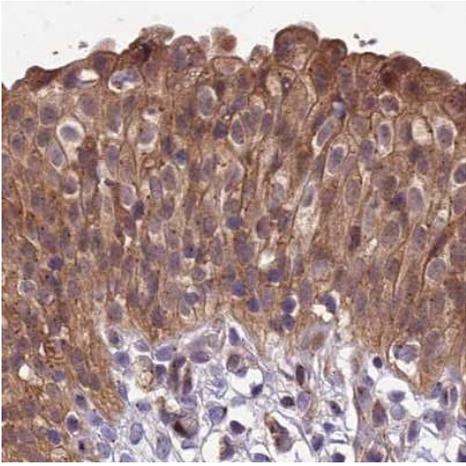
Paraffin-embedded human testis tissue stained for MKKS using ab254886 at 1/50 dilution in immunohistochemical analysis.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MKKS antibody (ab254886)



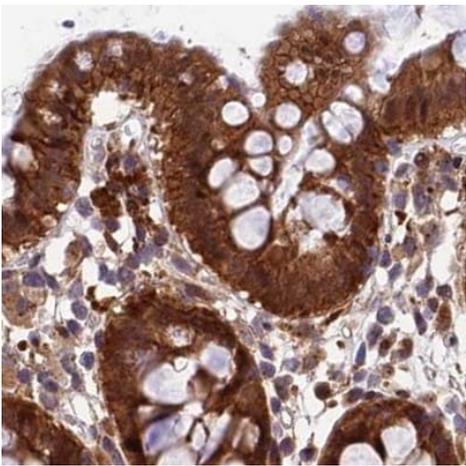
Paraffin-embedded human kidney tissue stained for MKKS using ab254886 at 1/50 dilution in immunohistochemical analysis.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MKKS antibody (ab254886)



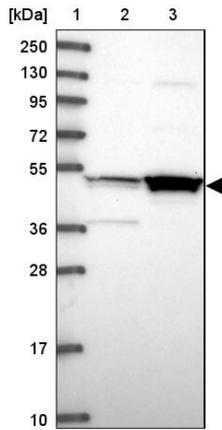
Paraffin-embedded human colon tissue stained for MKKS using ab254886 at 1/50 dilution in immunohistochemical analysis.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MKKS antibody (ab254886)



Paraffin-embedded human urinary bladder tissue stained for MKKS using ab254886 at 1/50 dilution in immunohistochemical analysis.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MKKS antibody (ab254886)



Western blot - Anti-MKKS antibody (ab254886)

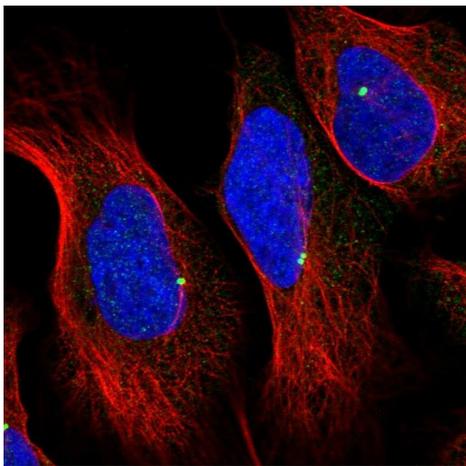
Lanes 2-3 : Anti-MKKS antibody (ab254886) at 0.4 μ g/ml

Lane 1 : DNA Ladder

Lane 2 : RT4 (Human urinary bladder cancer cell line) whole cell lysate

Lane 3 : U-251MG sp whole cell lysate

Predicted band size: 27 kDa



Immunocytochemistry/ Immunofluorescence - Anti-MKKS antibody (ab254886)

PFA fixed, Triton X-100 permeabilized U-2 OS (Human bone osteosarcoma epithelial cell line) cells labeling MKKS using ab254886 at 4 μ g/ml (green) in ICC/IF.

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