10320 Camino Santa Fe, Suite G
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KID Antibody
Purified Mouse Monoclonal Antibody
Catalog # AO1627a

Specification

KID Antibody - Product Information

Application	**WB, IHC, FC, E**
Primary Accession	Q14807
Reactivity	**Human**
Host	**Mouse**
Clonality	**Monoclonal**
Isotype	**IgG1**
Calculated MW	**73kDa KDa**

Description
The protein encoded by this gene is a member of kinesin-like protein family. This family of proteins are microtubule-dependent molecular motors that transport organelles within cells and move chromosomes during cell division. The C-terminal half of this protein has been shown to bind DNA. Studies with the Xenopus homolog suggests its essential role in metaphase chromosome alignment and maintenance.

Immunogen
Purified recombinant fragment of human KID expressed in E. Coli.

Formulation
Ascitic fluid containing 0.03% sodium azide.

KID Antibody - Additional Information

Gene ID 3835

Other Names
Kinesin-like protein KIF22, Kinesin-like DNA-binding protein, Kinesin-like protein 4, KIF22, KID, KNSL4

Dilution
WB~~1/500 - 1/2000
IHC~~1/200 - 1/1000
FC~~1/200 - 1/400
E~~1/10000

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
KID Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

KID Antibody - Protein Information

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Name KIF22

Synonyms KID, KNSL4

Function
Kinesin family member that is involved in spindle formation and the movements of chromosomes during mitosis and meiosis. Binds to microtubules and to DNA (By similarity). Plays a role in congression of laterally attached chromosomes in NDC80-depleted cells (PubMed:25743205).

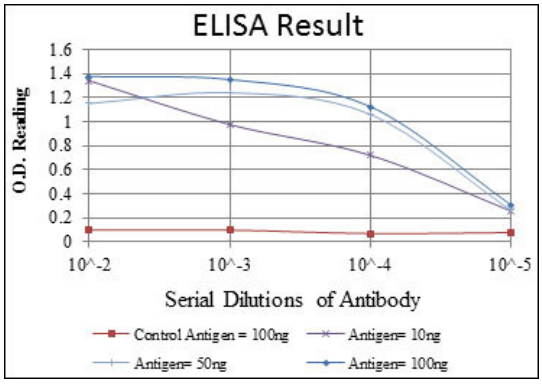
Cellular Location
Nucleus. Cytoplasm, cytoskeleton

Tissue Location
Expressed in bone, cartilage, joint capsule, ligament, skin, and primary cultured chondrocytes

KID Antibody - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture



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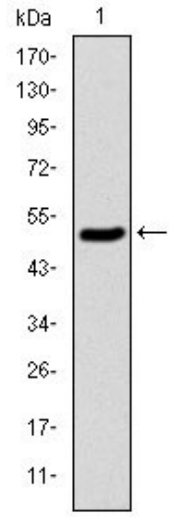

Figure 1: Western blot analysis using KID mAb against human KID (AA: 225-419) recombinant protein. (Expected MW is 47 kDa)

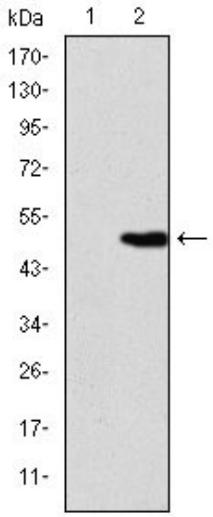

Figure 2: Western blot analysis using KID mAb against HEK293 (1) and KID(AA: 225-419)-hIgGFc transfected HEK293 (2) cell lysate.

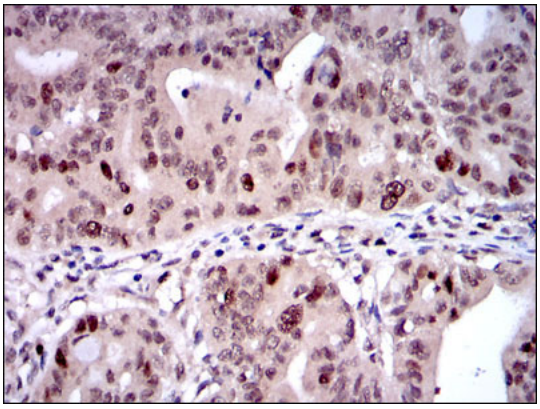

Figure 3: Immunohistochemical analysis of paraffin-embedded rectum cancer tissues using KID mouse mAb with DAB staining.

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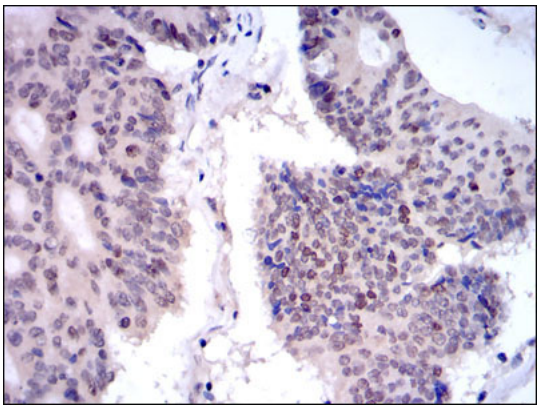

Figure 4: Immunohistochemical analysis of paraffin-embedded colon cancer tissues using KID mouse mAb with DAB staining.

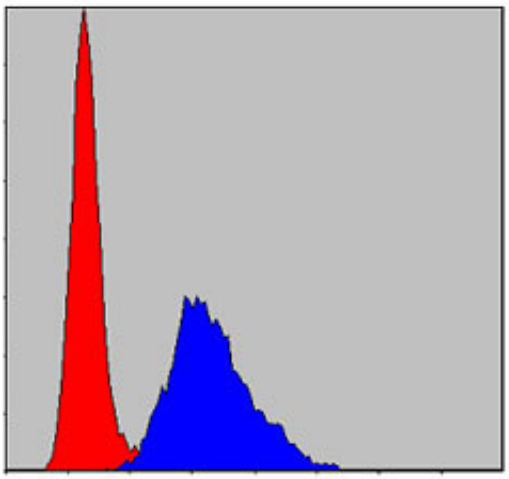

Figure 5: Flow cytometric analysis of NIH/3T3 cells using KID mouse mAb (blue) and negative control (red).

KID Antibody - References

1. Cell. 2008 Mar 7;132(5):771-82. 2. Retrovirology. 2009 May 19;6:47.