

**KID Antibody**  
**Purified Mouse Monoclonal Antibody**  
**Catalog # AO1627a****Specification****KID Antibody - Product Information**

Application	<b>E, WB, IHC, FC</b>
Primary Accession	<a href="#">Q14807</a>
Reactivity	<b>Human</b>
Host	<b>Mouse</b>
Clonality	<b>Monoclonal</b>
Isotype	<b>IgG1</b>
Calculated MW	<b>73kDa KDa</b>

**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*. <br />

**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, KNLS4

**Dilution**

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

**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**

**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:<a href="http://www.uniprot.org/citations/25743205" target="\_blank">25743205</a>).

**Cellular Location**

Nucleus. Cytoplasm, cytoskeleton

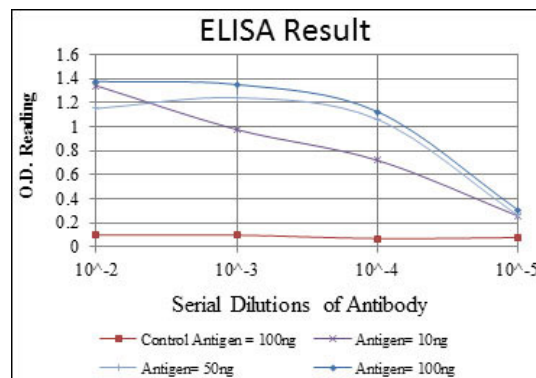
**Tissue Location**

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 Cytometry](#)
- [Cell Culture](#)



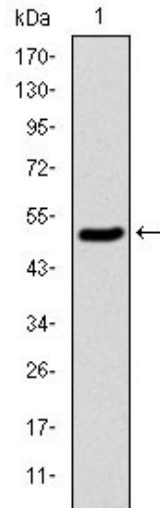


Figure 1: Western blot analysis using KID mAb against human KID (AA: 225-419) recombinant protein. (Expected MW is 47 kDa)

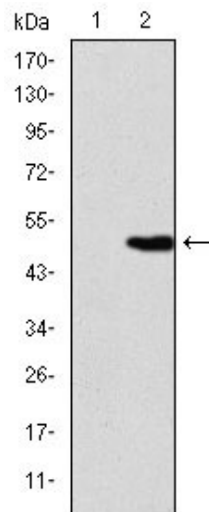


Figure 2: Western blot analysis using KID mAb against HEK293 (1) and KID(AA: 225-419)-hIgGFc transfected HEK293 (2) cell lysate.

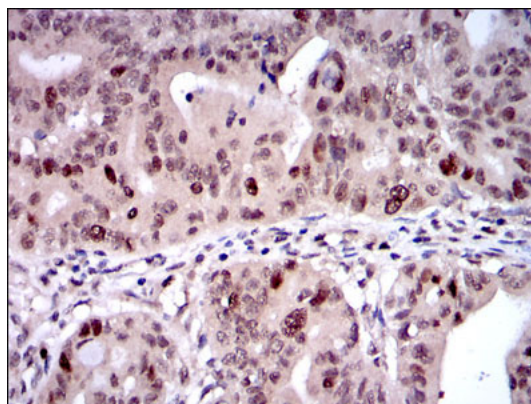


Figure 3: Immunohistochemical analysis of paraffin-embedded rectum cancer tissues using KID mouse mAb with DAB staining.

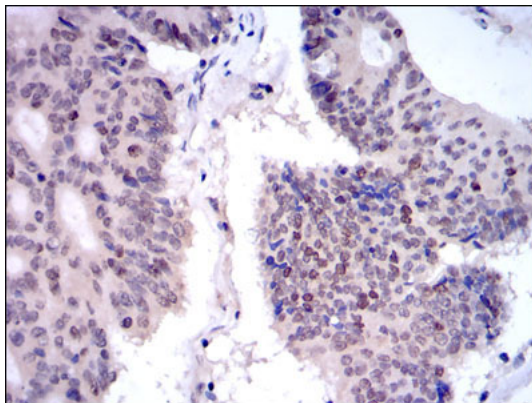


Figure 4: Immunohistochemical analysis of paraffin-embedded colon cancer tissues using KID mouse mAb with DAB staining.

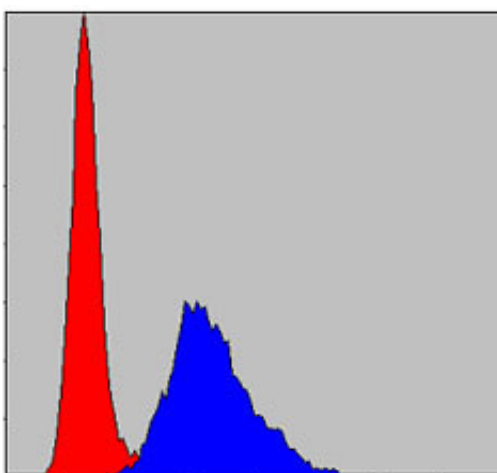


Figure 5: Flow cytometric analysis of NIH/3T3 cells using KID mouse mAb (blue) and negative control (red).

#### KID Antibody - References

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