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

KID Antibody

Purified Mouse Monoclonal Antibody
Catalog # AO1627a

Product Information

Application	WB, IHC, FC, E
Primary Accession	Q14807
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Clone Names	1E3
Isotype	IgG1
Calculated MW	73262
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.

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.

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:25743205).
Cellular Location	Nucleus. Cytoplasm, cytoskeleton
Tissue Location	Expressed in bone, cartilage, joint capsule, ligament, skin, and primary cultured chondrocytes

References

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

Images

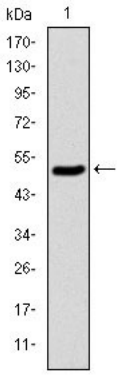


Figure 1: Western blot analysis using KID mAb against human KID (AA: 225-419) recombinant protein. (Expected MW is 47 kDa)

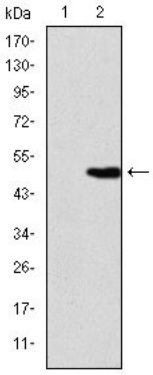


Figure 2: Western blot analysis using KID mAb against HEK293 (1) and KID(AA: 225-419)-hIgGFc transfected HEK293 (2) cell lysate.

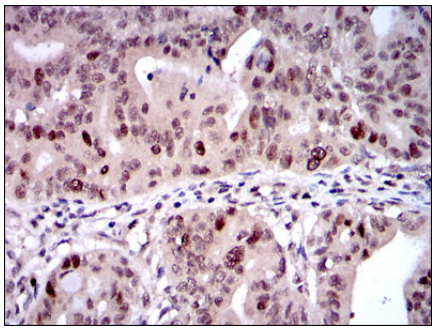


Figure 3: Immunohistochemical analysis of paraffin-embedded rectum cancer tissues using KID mouse mAb with DAB staining.

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

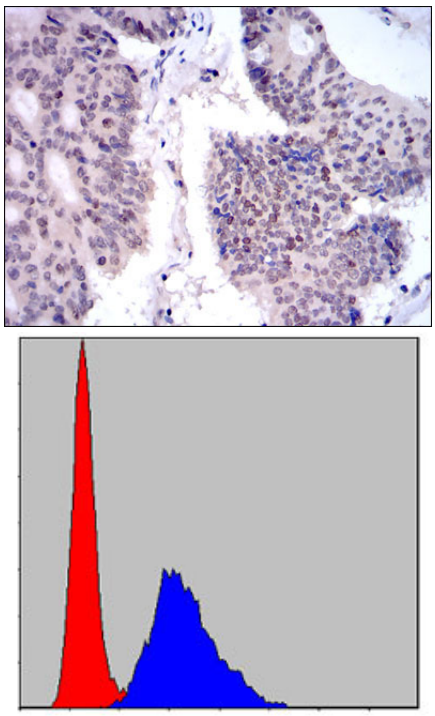


Figure 5: Flow cytometric analysis of NIH/3T3 cells using KID mouse mAb (blue) and negative control (red).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.