

**Product Name: KD-Validated Kinesin Family Member 23 Recombinant Rabbit Monoclonal Antibody**

**Catalog #: KVA01324**

For research use only.

## Summary

|                     |                                                                             |
|---------------------|-----------------------------------------------------------------------------|
| <b>Description</b>  | KO&KD-Validated antibody                                                    |
| <b>Host</b>         | Rabbit                                                                      |
| <b>Application</b>  | WB,FCM,ICC                                                                  |
| <b>Reactivity</b>   | Human,Mouse,Rat                                                             |
| <b>Conjugation</b>  | Unconjugated                                                                |
| <b>Modification</b> | Unmodified                                                                  |
| <b>Isotype</b>      | Rabbit IgG                                                                  |
| <b>Clonality</b>    | Rabbit mAb                                                                  |
| <b>Form</b>         | Liquid                                                                      |
| <b>Storage</b>      | Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles. |
| <b>Shipping</b>     | Ice bags                                                                    |
| <b>Buffer</b>       | Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.   |
| <b>Purification</b> | Affinity purification                                                       |

## Application

|                         |                                                         |
|-------------------------|---------------------------------------------------------|
| <b>Dilution Ratio</b>   | WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000 |
| <b>Molecular Weight</b> | Calculated MW: 110.1kDa                                 |

## Antigen Information

|                          |                                                                                                                                                                                                                                                                                       |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>         | KIF23<br>KIF23; Kinesin Family Member 23; MKLP1; MKLP-1; KNSL5; Kinesin-Like 5 (Mitotic Kinesin-Like Protein 1); Kinesin-Like Protein KIF23; Congenital Dyserythropoietic Anemia, Type III; Mitotic Kinesin-Like Protein 1; Kinesin-Like Protein 5; CDAIII; CDAN3A; CDAN3; CDA3; CHO1 |
| <b>Alternative Names</b> |                                                                                                                                                                                                                                                                                       |
| <b>Gene ID</b>           | 9493.0                                                                                                                                                                                                                                                                                |
| <b>SwissProt ID</b>      | Q02241                                                                                                                                                                                                                                                                                |
| <b>Immunogen</b>         | A synthesized peptide derived from human MKLP1                                                                                                                                                                                                                                        |

## Background

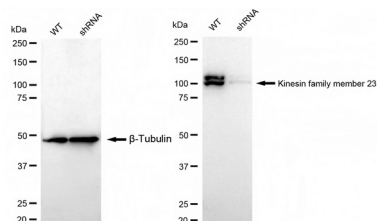
The protein encoded by this gene is a member of kinesin-like protein family. This family includes microtubule-dependent

molecular motors that transport organelles within cells and move chromosomes during cell division. This protein has been shown to cross-bridge antiparallel microtubules and drive microtubule movement in vitro. Alternate splicing of this gene results in multiple transcript variants. [provided by RefSeq, Jul 2013]

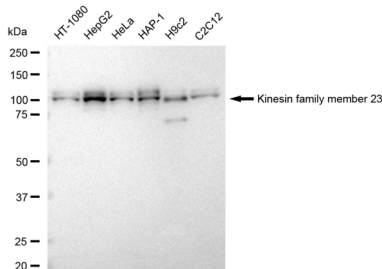
## Research Area

Cell Biology, Signal Transduction, Cardiovascular

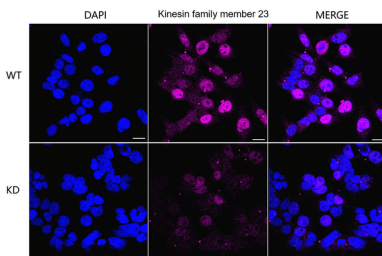
## Image Data



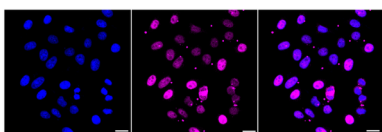
Western blotting analysis using Kinesin family member 23 antibody (KVA01324). Kinesin family member 23 expression in wild type (WT) and Kinesin family member 23 shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with Kinesin family member 23 antibody (KVA01324, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



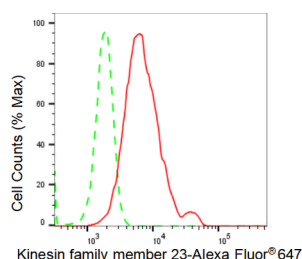
Western blotting analysis using Kinesin family member 23 antibody (KVA01324). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with Kinesin family member 23 antibody (KVA01324, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HeLa cells using Kinesin family member 23 antibody (KVA01324, 1:1,000). Top panel: wild-type (WT); Bottom panel: Kinesin family member 23 shRNA knockdown (KD). Nuclei were stained blue with DAPI; Kinesin family member 23 was stained magenta with Alexa Fluor® 647. Scale bar, 20 µm. Permeabilization: Triton.



Immunocytochemical staining of HepG2 cells with Kinesin family member 23 antibody (KVA01324, 1:1,000). Nuclei were stained blue with DAPI; Kinesin family member 23 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: High. Scale bar: 20 µm.



Flow cytometric analysis of Kinesin family member 23 expression in HepG2 cells using Kinesin family member 23 antibody (KVA01324, 1:2,000). Green, isotype control; red, Kinesin family member 23.