

**Product Name:** KD-Validated Kinesin Family Member 4A Recombinant Rabbit Monoclonal Antibody

**Catalog #:** KVAb01781

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: 139.9kDa                                 |

## Antigen Information

|                          |                                                                                                                         |
|--------------------------|-------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>         | KIF4A<br>KIF4A; Kinesin Family Member 4A; KIF4; MRX100; Chromosome-Associated Kinesin KIF4A;                            |
| <b>Alternative Names</b> | Chromokinesin KIF4A; Chromokinesin-A; HSA271784; FLJ12530; FLJ12655; FLJ14204; FLJ20631; KIF4-G1; XLID100; KIF4G1; TMDI |
| <b>Gene ID</b>           | 24137.0                                                                                                                 |
| <b>SwissProt ID</b>      | O95239                                                                                                                  |
| <b>Immunogen</b>         | A synthesized peptide derived from human KIF4A                                                                          |

## Background

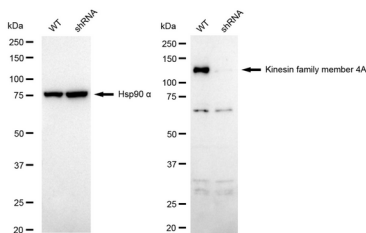
This gene encodes a member of the kinesin 4 subfamily of kinesin related proteins. The encoded protein is an ATP dependent

microtubule-based motor protein that is involved in the intracellular transport of membranous organelles. This protein also associates with condensed chromosome arms and may be involved in maintaining chromosome integrity during mitosis. This protein may also be involved in the organization of the central spindle prior to cytokinesis. A pseudogene of this gene is found on chromosome X.[provided by RefSeq, Mar 2010]

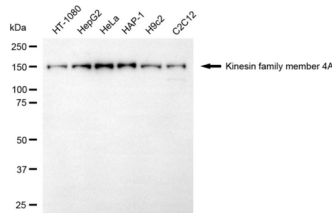
## Research Area

Cell Biology, Epigenetics and Nuclear Signaling, Signal Transduction, Cancer

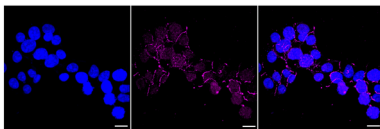
## Image Data



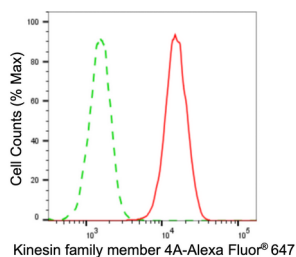
Western blotting analysis using kinesin family member 4A antibody (KVA01781). Kinesin family member 4A expression in wild type (WT) and kinesin family member 4A (KIF4A) shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with kinesin family member 4A antibody (KVA01781, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using kinesin family member 4A antibody (KVA01781). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with kinesin family member 4A antibody (KVA01781, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HAP-1 cells with kinesin family member 4A antibody (KVA01781, 1:1,000). Nuclei were stained blue with DAPI; Kinesin family member 4A was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar: 20 µm.



Flow cytometric analysis of kinesin family member 4A expression in HAP-1 cells using kinesin family member 4A antibody (KVA01781, 1:2,000). Green, isotype control; red, kinesin family member 4A.