

**Product Name:** KD-Validated Sorting Nexin 1 Recombinant Rabbit Monoclonal Antibody  
**Catalog #:** KVAb00868

For research use only.

## Summary

|                     |                                                                             |
|---------------------|-----------------------------------------------------------------------------|
| <b>Description</b>  | KO&KD-Validated antibody                                                    |
| <b>Host</b>         | Rabbit                                                                      |
| <b>Application</b>  | WB,FCM,ICC,IHC-P                                                            |
| <b>Reactivity</b>   | Human,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; IHC-P 1:100-1:200 |
| <b>Molecular Weight</b> | Calculated MW: 59.1kDa                                                     |

## Antigen Information

|                          |                                                                                          |
|--------------------------|------------------------------------------------------------------------------------------|
| <b>Gene Name</b>         | SNX1                                                                                     |
| <b>Alternative Names</b> | SNX1; Sorting Nexin 1; HsT17379; Vps5; Sorting Nexin-1; MGC8664; SNX1A; Sorting Nexin 1A |
| <b>Gene ID</b>           | 6642.0                                                                                   |
| <b>SwissProt ID</b>      | Q13596                                                                                   |
| <b>Immunogen</b>         | A synthesized peptide derived from human SNX1                                            |

## Background

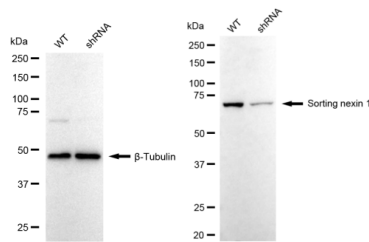
This gene encodes a member of the sorting nexin family. Members of this family contain a phox (PX) domain, which is a phosphoinositide binding domain, and are involved in intracellular trafficking. This endosomal protein regulates the cell-surface expression of epidermal growth factor receptor. This protein also has a role in sorting protease-activated receptor-1

from early endosomes to lysosomes. This protein may form oligomeric complexes with family members. This gene results in three transcript variants encoding distinct isoforms. [provided by RefSeq, Jul 2008]

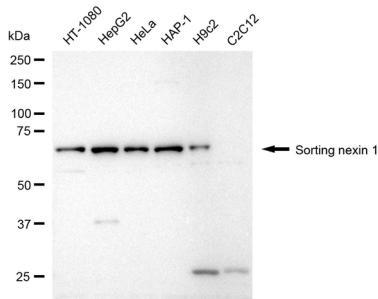
## Research Area

Signal Transduction

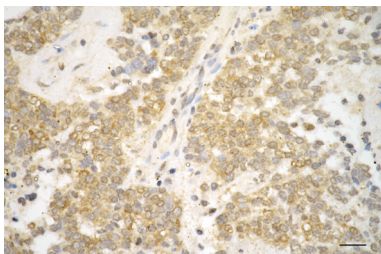
## Image Data



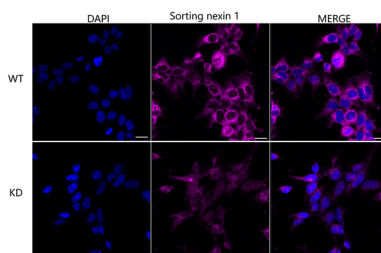
Western blotting analysis using Sorting nexin 1 antibody (KVA00868). Sorting nexin 1 expression in wild type (WT) and Sorting nexin 1 shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with Sorting nexin 1 antibody (KVA00868, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



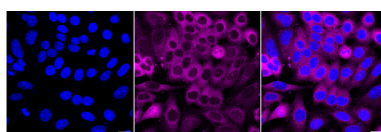
Western blotting analysis using sorting nexin 1 antibody (KVA00868). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with sorting nexin 1 antibody (KVA00868, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



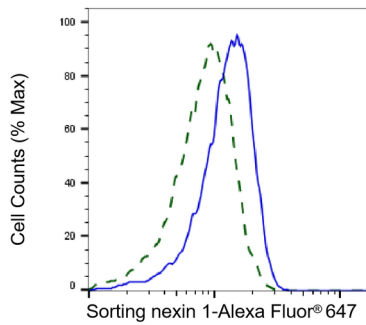
Immunohistochemistry was performed on paraffin-embedded human breast carcinoma using sorting nexin 1 antibody (KVA00868, 1:200). Antigen retrieval was done in sodium citrate buffer (pH 6.0). DAB was used for detection, with hematoxylin counterstaining. Images were acquired using a Nikon Ci-L Plus microscope (40× objective). Scale bar: 25 µm.



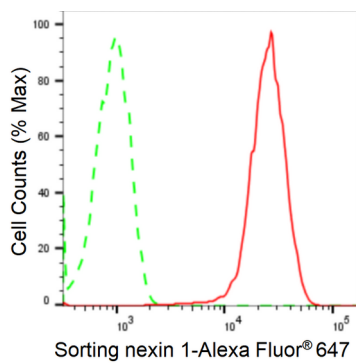
Immunocytochemical staining of HeLa cells using Sorting nexin 1 antibody (KVA00868, 1:1,000), Top panel: wild-type (WT); Bottom panel: Sorting nexin 1 shRNA knockdown (KD). Nuclei were stained blue with DAPI; Sorting nexin 1 was stained magenta with Alexa Fluor® 647. Scale bar, 20 µm.



Immunocytochemical staining of HepG2 cells with Sorting nexin 1 antibody (KVA00868, 1:1,000). Nuclei were stained blue with DAPI; Sorting nexin 1 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.



Validation of Sorting nexin 1 knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HeLa cells were stained with Sorting nexin 1 antibody (KVA00868, 1:2,000) and analyzed using BD flow cytometer.



Flow cytometric analysis of Sorting nexin 1 expression in HepG2 cells using Sorting nexin 1 antibody (KVA00868, 1:2,000). Green, isotype control; red, Sorting nexin 1.