Product Name: **KD-Validated NF2 / Merlin Recombinant Rabbit Monoclonal Antibody**
Catalog #: **KVAb01657**
For research use only.

Summary

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

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 69.7kDa

Antigen Information

Gene Name	NF2
Alternative Names	NF2; NF2, Moesin-Ezrin-Radixin Like (MERLIN) Tumor Suppressor; SCH; Schwannomin; Merlin; BANF; ACN; Neurofibromin 2 (Bilateral Acoustic Neuroma); Bilateral Acoustic Neurofibromatosis; Moesin-Ezrin-Radixin-Like Protein; Moesin-Ezrin-Radixin Like; Neurofibromin-2 ; Schwannomerlin; Merlin-1; Moesin-Ezrin-Radizin-Like Protein; Neurofibromin 2 (Merlin); MERLIN-1; MERLIN; SWNV
Gene ID	4771.0
SwissProt ID	P35240
Immunogen	A synthesized peptide derived from human NF2 / Merlin

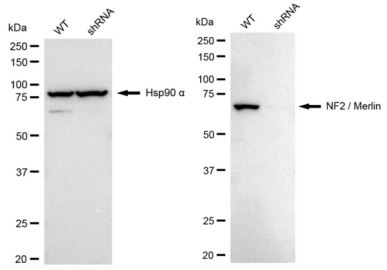
Background

This gene encodes a protein that is similar to some members of the ERM (ezrin, radixin, moesin) family of proteins that link cytoskeletal components with proteins in the cell membrane. The encoded protein is involved in regulation of contact-dependent inhibition of cell proliferation and functions in cell-cell adhesion and transmembrane signaling. The encoded protein has been shown to interact with cell-surface proteins, proteins involved in cytoskeletal dynamics, and proteins involved in regulating ion transport. Disruption of this protein's function has been implicated in tumorigenesis and metastasis. Mutations in this gene are associated with neurofibromatosis type II which is characterized by nervous system and skin tumors and ocular abnormalities. [provided by RefSeq, May 2022]

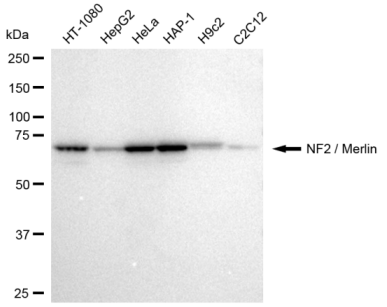
Research Area

Neuroscience,Signal Transduction,Epigenetics and Nuclear Signaling,Cancer

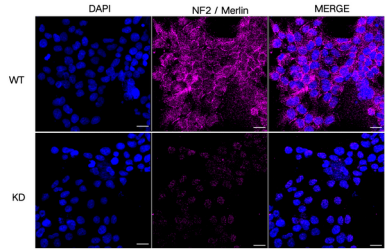
Image Data



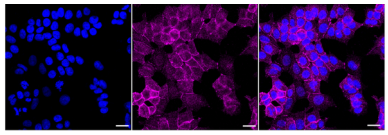
Western blotting analysis using NF2 / Merlin antibody (KVAb01657). NF2 / Merlin expression in wild type (WT) and NF2 / Merlin shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with NF2 / Merline antibody (KVAb01657, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



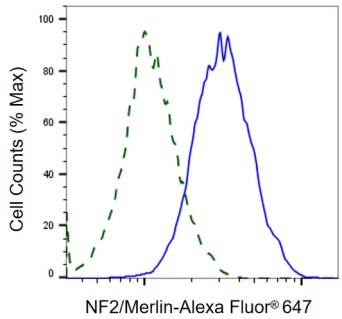
Western blotting analysis using NF2 / Merlin antibody (KVAb01657). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with NF2 / Merlin antibody (KVAb01657, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



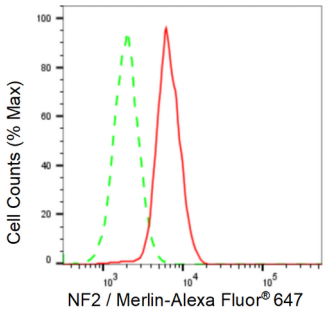
Immunocytochemical staining of HeLa cells using NF2 / Merlin antibody (KVAb01657, 1:1,000), Top panel: wild-type (WT); Bottom panal: NF2 / Merlin shRNA knockdown (KD). Nuclei were stained blue with DAPI; NF2 / Merlin was stained magenta with Alexa Fluor® 647. Scale bar, 20 µm.



Immunocytochemical staining of HAP-1 cells with NF2 / Merlin antibody (KVAb01657, 1:1,000). Nuclei were stained blue with DAPI; NF2 / Merlin 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 NF2 knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HeLa cells were stained with NF2 / Merlin antibody (KVAb01657, 1:2,000) and analyzed using BD flow cytometer.



Flow cytometric analysis of NF2 / Merlin expression in HAP-1 cells using NF2 / Merlin antibody (KVAb01657, 1:2,000). Green, isotype control; red, NF2 / Merlin.