

Product Name: KD-Validated GEMIN2 Recombinant Rabbit Monoclonal Antibody
Catalog #: KVAb01057

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: 31.6kDa

Antigen Information

Gene Name	GEMIN2
Alternative Names	GEMIN2; Gem Nuclear Organelle Associated Protein 2; SIP1; Survival Of Motor Neuron Protein Interacting Protein 1; Gem-Associated Protein; Component Of Gems; Gemin-2; Survival Of Motor Neuron Protein-Interacting Protein 1; Gem (Nuclear Organelle) Associated Protein 2; SMN Interacting Protein 1-Delta; SMN-Interacting Protein 1; SIP1-Delta
Gene ID	8487.0
SwissProt ID	O14893
Immunogen	A synthesized peptide derived from human Gemin 2

Background

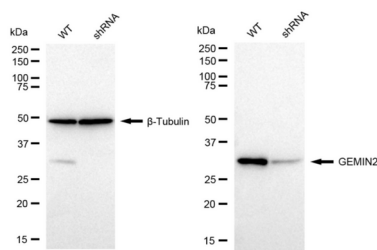
This gene encodes one of the proteins found in the SMN complex, which consists of several gemin proteins and the protein

known as the survival of motor neuron protein. The SMN complex is localized to a subnuclear compartment called gems (gemini of coiled bodies) and is required for assembly of spliceosomal snRNPs and for pre-mRNA splicing. This protein interacts directly with the survival of motor neuron protein and it is required for formation of the SMN complex. A knockout mouse targeting the mouse homolog of this gene exhibited disrupted snRNP assembly and motor neuron degeneration. [provided by RefSeq, Aug 2011]

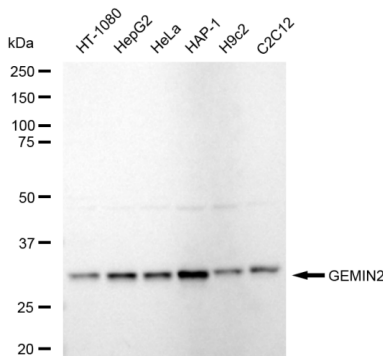
Research Area

Neuroscience

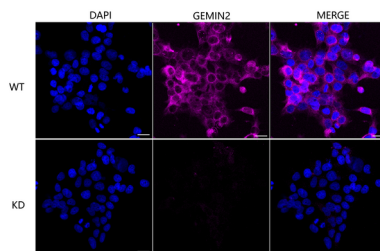
Image Data



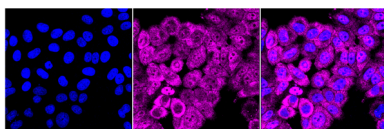
Western blotting analysis using GEMIN2 antibody (KVA01057). GEMIN2 expression in wild type (WT) and GEMIN2 shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with GEMIN2 antibody (KVA01057, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



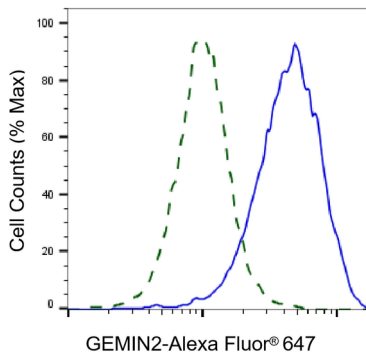
Western blotting analysis using GEMIN2 antibody (KVA01057). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with GEMIN2 antibody (KVA01057, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



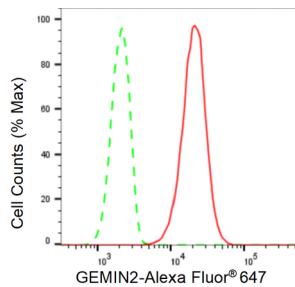
Immunocytochemical staining of HeLa cells using GEMIN2 antibody (KVA01057, 1:1,000), Top panel: wild-type (WT); Bottom panel: GEMIN2 shRNA knockdown (KD). Nuclei were stained blue with DAPI; GEMIN2 was stained magenta with Alexa Fluor® 647. Scale bar, 20 µm.



Immunocytochemical staining of HepG2 cells with GEMIN2 antibody (KVA01057, 1:1,000). Nuclei were stained blue with DAPI; GEMIN2 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 GEMIN2 knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HeLa cells were stained with GEMIN2 antibody (KVA01057, 1:2,000) and analyzed using BD flow cytometer.



Flow cytometric analysis of GEMIN2 expression in HepG2 cells using GEMIN2 antibody (KVA01057, 1:2,000). Green, isotype control; red, GEMIN2.