
Product Name: KD-Validated Matrin 3 Recombinant Rabbit Monoclonal Antibody**Catalog #: KVA00989**

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: 94.6kDa

Antigen Information

Gene Name	MATR3
Alternative Names	Matrin 3; KIAA0723; VCPDM; Matrin-3; MGC9105; MPD2; Vocal Cord And Pharyngeal Weakness With Distal Myopathy; Myopathy, Distal 2; ALS21
Gene ID	9782.0
SwissProt ID	P43243
Immunogen	A synthesized peptide derived from human Matrin 3

Background

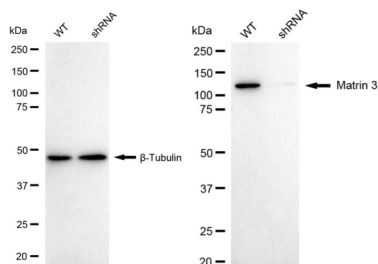
This gene encodes a nuclear matrix protein, which is proposed to stabilize certain messenger RNA species. Mutations of this gene are associated with distal myopathy 2, which often includes vocal cord and pharyngeal weakness. Alternatively spliced transcript variants, including read-through transcripts composed of the upstream small nucleolar RNA host gene 4 (non-

protein coding) and matrin 3 gene sequence, have been identified. Pseudogenes of this gene are located on chromosomes 1 and X. [provided by RefSeq, Aug 2013]

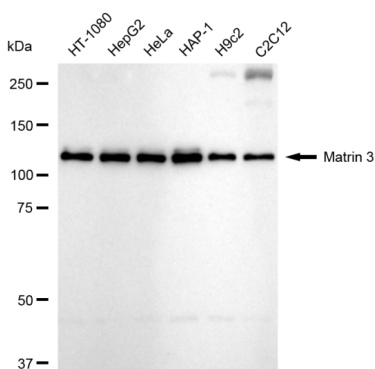
Research Area

Epigenetics and Nuclear Signaling

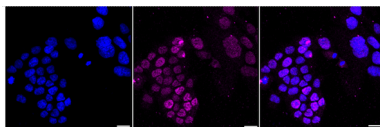
Image Data



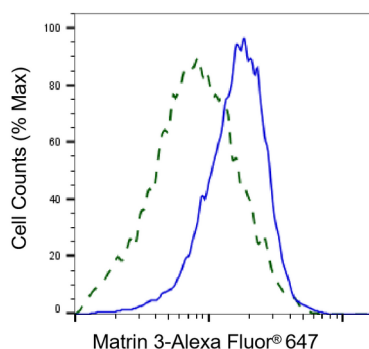
Western blotting analysis using Matrin 3 antibody (KVA00989). Matrin 3 expression in wild type (WT) and Matrin 3 shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with Matrin 3 antibody (KVA00989, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



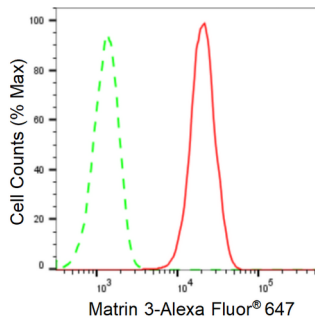
Western blotting analysis using Matrin 3 antibody (KVA00989). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with Matrin 3 antibody (KVA00989, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HAP-1 cells with Matrin 3 antibody (KVA00989, 1:1,000). Nuclei were stained blue with DAPI; Matrin 3 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 Matrin 3 knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HeLa cells were stained with Matrin 3 antibody (KVA00989, 1:2,000) and analyzed using BD flow cytometer.



Flow cytometric analysis of Matrin 3 expression in HAP-1 cells using Matrin 3 antibody (KVA00989, 1:2,000). Green, isotype control; red, Matrin 3.