10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

KD-Validated Anti-Nesprin3 Rabbit Monoclonal Antibody

Rabbit monoclonal antibody
Catalog # AGI1465

Specification

KD-Validated Anti-Nesprin3 Rabbit Monoclonal Antibody - Product Information

Application	**WB, ICC**
Primary Accession	Q6ZMZ3
Reactivity	**Human**
Clonality	**Monoclonal**
Isotype	**Rabbit IgG**
Calculated MW	**Predicted, 112 kDa, observed, 100 kDa KDa**
Gene Name	**SYNE3**
Aliases	**SYNE3; Spectrin Repeat Containing Nuclear Envelope Family Member 3; Nesprin-3; LINC00341; NET53; Long Intergenic Non-Protein Coding RNA 341; Nuclear Envelope Spectrin Repeat Protein 3; KASH Domain-Containing Protein 3; NCRNA00341; C14orf139; FLJ25605; C14orf49; Nesp3; KASH3; Chromosome 14 Open Reading Frame 139; Chromosome 14 Open Reading Frame 49; Uncharacterized Protein C14orf113; Non-Protein Coding RNA 341; C14ORF139; NESPRIN-3; C14ORF49; NESP3**
Immunogen	**A synthesized peptide derived from human Nesprin3**

KD-Validated Anti-Nesprin3 Rabbit Monoclonal Antibody - Additional Information

Gene ID	**161176**

Other Names
Nesprin-3, KASH domain-containing protein 3, KASH3, Nuclear envelope spectrin repeat protein 3, SYNE3 (HGNC:19861)

KD-Validated Anti-Nesprin3 Rabbit Monoclonal Antibody - Protein Information

Name SYNE3 (HGNC:19861)

Function
As a component of the LINC (LInker of Nucleoskeleton and Cytoskeleton) complex involved in the connection between the nuclear lamina and the cytoskeleton. The nucleocytoplasmic interactions established by the LINC complex play an important role in the transmission of mechanical forces across the nuclear envelope and in nuclear movement and positioning. Probable anchoring protein which tethers the nucleus to the cytoskeleton by binding PLEC which can associate with the

intermediate filament system. Plays a role in the regulation of aortic epithelial cell morphology, and is required for flow-induced centrosome polarization and directional migration in aortic endothelial cells.

Cellular Location
Nucleus outer membrane; Single-pass type IV membrane protein. Nucleus envelope. Rough endoplasmic reticulum

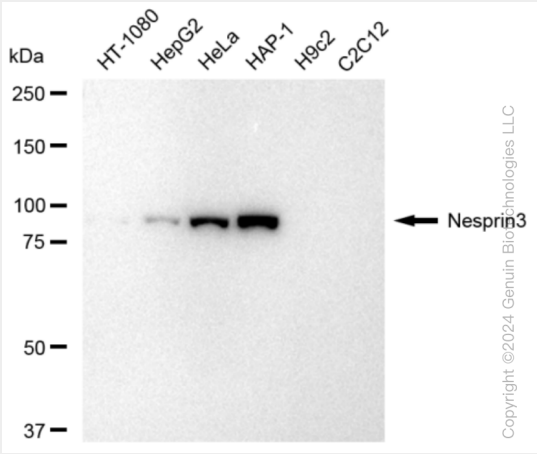
Tissue Location
Expressed in aortic endothelial cells (at protein level).

KD-Validated Anti-Nesprin3 Rabbit Monoclonal Antibody - Protocols

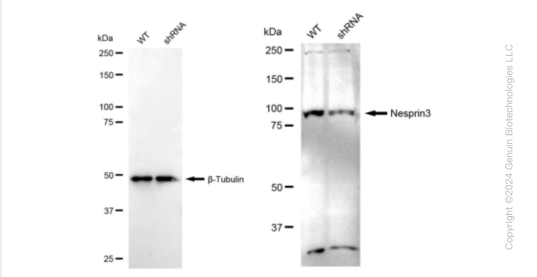
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

KD-Validated Anti-Nesprin3 Rabbit Monoclonal Antibody - Images

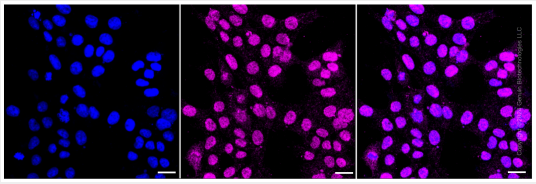


Western blotting analysis using anti-Nesprin3 antibody (Cat#AGI1465). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-Nesprin3 antibody (Cat#AGI1465, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Western blotting analysis using anti-Nesprin3 antibody (Cat#AGI1465). Nesprin3 expression in wild type (WT) and Nesprin3 shRNA knockdown (KD) HT-1080 cells with 30 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with anti-Nesprin3 antibody (Cat#AGI1465, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Immunocytochemical staining of HAP-1 cells with Nesprin3 antibody (Cat#AGI1465, 1:1,000). Nuclei were stained blue with DAPI; Nesprin3 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Low. Scale bar: 20 µm.