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C14orf49 Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP50768

Product Information

Application	WB
Primary Accession	Q6ZMZ3
Reactivity	Human, Mouse
Host	Rabbit
Clonality	polyclonal
Calculated MW	112216

Additional Information

Gene ID	161176
Other Names	Nesprin-3, Nuclear envelope spectrin repeat protein 3, SYNE3, C14orf49
Dilution	WB~~ 1:1000
Format	Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.09% (W/V) sodium azide and 50% glycerol.
Storage Conditions	-20℃

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).

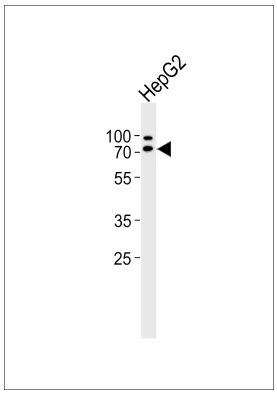
Background

Component of SUN-protein-containing multivariate complexes also called LINC complexes which link the nucleoskeleton and cytoskeleton by providing versatile outer nuclear membrane attachment sites for cytoskeletal filaments. Involved in the maintenance of nuclear organization and structural integrity. 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.

References

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Heilig R.,et al.Nature 421:601-607(2003).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Wilhelmsen K.,et al.J. Cell Biol. 171:799-810(2005).
Stewart-Hutchinson P.J.,et al.Exp. Cell Res. 314:1892-1905(2008).

Images



Western blot analysis of lysate from HepG2 cell line,using C14orf49 Antibody(AP50768). AP50768 was diluted at 1:1000. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody.Lysate at 35ug.

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