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SYNE3 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP10823b

Product Information

Application	WB, IHC-P, E
Primary Accession	Q6ZMZ3
Other Accession	NP_689805.3
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB28457
Calculated MW	112216
Antigen Region	852-880

Additional Information

Gene ID	161176
Other Names	Nesprin-3, Nuclear envelope spectrin repeat protein 3, SYNE3, C14orf49
Target/Specificity	This SYNE3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 852-880 amino acids from the C-terminal region of human SYNE3.
Dilution	WB~~1:1000 IHC-P~~1:100~500 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.05% (V/V) Proclin 300. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	SYNE3 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

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).

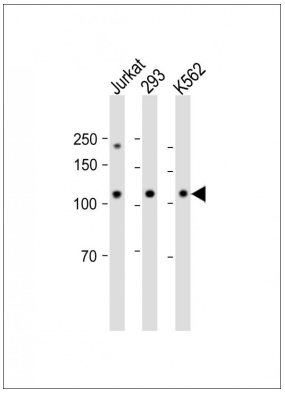
Background

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.

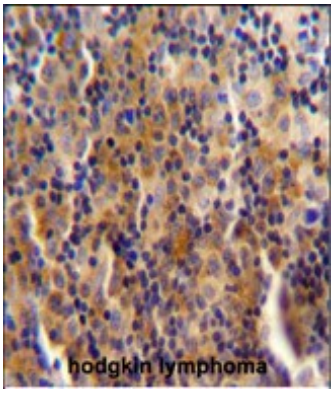
References

Nery, F.C., et al. J. Cell. Sci. 121 (PT 20), 3476-3486 (2008) :
Stewart-Hutchinson, P.J., et al. Exp. Cell Res. 314(8):1892-1905(2008)
Wilhelmsen, K., et al. J. Cell Biol. 171(5):799-810(2005)
Heilig, R., et al. Nature 421(6923):601-607(2003)

Images



All lanes: Anti-SYNE3 Antibody (C-term) at 1:2000 dilution Lane 1: Jurkat whole cell lysate Lane 2: 293 whole cell lysate Lane 3: K562 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary: Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (ASP1615) at 1/15000 dilution. Observed band size: 112 KDa Blocking/Dilution buffer: 5% NFDM/TBST.



SYNE3 antibody (C-term) (Cat. #AP10823b) immunohistochemistry analysis in formalin fixed and paraffin embedded human hodgkin lymphoma followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of SYNE3 antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.