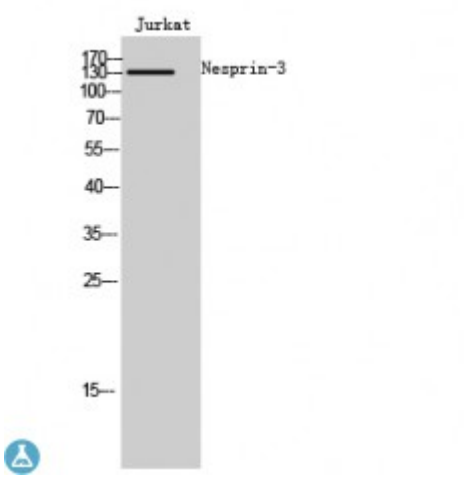
Anti-Nesprin-3 antibody



Description	Rabbit polyclonal to Nesprin-3.

Model	STJ94404
Host	Rabbit
Reactivity	Human, Mouse
Applications	ELISA, IF, WB
Immunogen	Synthesized peptide derived from human Nesprin-3
Immunogen Region	140-220 aa, Internal
Gene ID	161176
Gene Symbol	SYNE3
Dilution range	WB 1:500-1:2000IF 1:200-1:1000ELISA 1:40000
Specificity	Nesprin-3 Polyclonal Antibody detects endogenous levels of Nesprin-3 protein.
Tissue Specificity	Expressed in aortic endothelial cells (at protein level).
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Note	For Research Use Only (RUO).
Protein Name	Nesprin-3 KASH domain-containing protein 3 KASH3 Nuclear envelope spectrin repeat protein 3
Molecular Weight	130 kDa
Clonality	Polyclonal

Conjugation	Unconjugated
Isotype	IgG
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Concentration	1 mg/ml
Storage Instruction	Store at -20°C, and avoid repeat freeze-thaw cycles.
Database Links	HGNC:19861OMIM:610861
Alternative Names	Nesprin-3 KASH domain-containing protein 3 KASH3 Nuclear envelope spectrin repeat protein 3
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.
Sequence and Domain Family	The KASH domain is involved in the binding to SUN1 and SUN2 through recognition of their SUN domains.
Cellular Localization	Nucleus outer membrane Nucleus envelope Rough endoplasmic reticulum
Post-translational Modifications	The disulfid bond with SUN1 or SUN2 is required for stability of the respective LINC complex under tensile forces.