

Rabbit Nesprin 1 Polyclonal Antibody | anti-SYNE1 antibody

Nesprin 1 Antibody

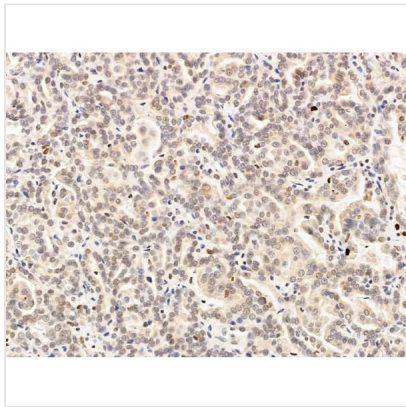
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA31245	Rabbit	Human, Mouse, Rat Predicted Reactivity: Horse(88%), Sheep(100%), Dog(88%)	ELISA

PRODUCT SYNONYMS

Nesprin 1; Polyclonal Antibody; Nesprin 1 Antibody; 8B; ARCA1; C6orf98; CPG2; CPG2 full length; dJ45H2.2; EDMD4; Enaptin; Myne-1; MYNE1; Myocyte nuclear envelope protein 1; Nesp1; Nesprin-1; Nuclear envelope spectrin repeat protein 1; SCAR8; Spectrin repeat containing nuclear envelope 1; Synaptic nuclear envelope protein 1; Synaptic nuclei expressed gene 1; Syne-1; SYNE1; SYNE1_HUMAN; SYNE1B; anti-SYNE1 antibody

PRODUCT SPECIFICATIONS

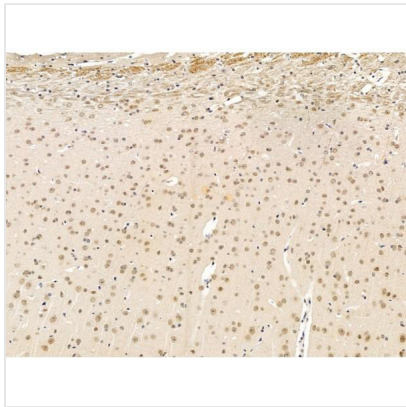
Host	Rabbit
Reactivity	Human, Mouse, Rat Predicted Reactivity: Horse(88%), Sheep(100%), Dog(88%)
Clonality	Polyclonal
Isotype	IgG
Specificity	Nesprin 1 Antibody detects endogenous levels of total Nesprin 1.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin (Thermo Fisher Scientific).
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol
Concentration	1mg/ml (varies by lot)
Sequence Length	8797
Applicable Applications for anti-SYNE1 antibody	ELISA
Application Notes	IF: 1:100-1:500 ICC: 1:100-1:500 WB: 1:500-1:2000 IHC: 1:50-1:200 ELISA(peptide): 1:20,000-1:40,000
Immunogen	A synthesized peptide derived from human Nesprin 1, corresponding to a region within C-terminal amino acids.
Fragment	Fab fragment
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



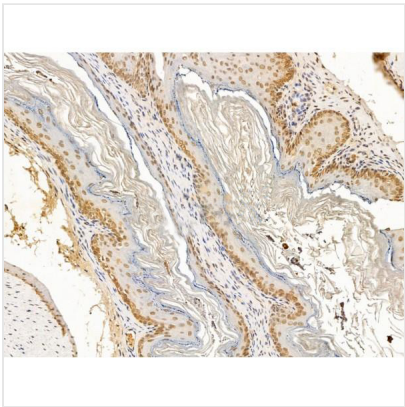
IHC (Immunohistochemistry-Paraffin)
AAA31245 at 1/100 staining Human kidney cancer by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4Â°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



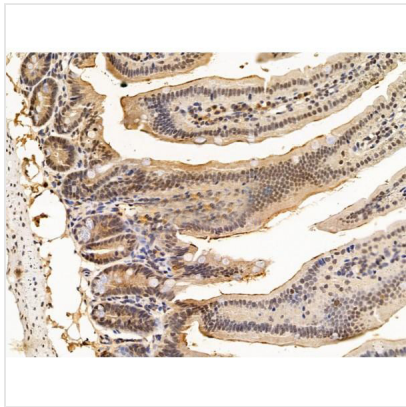
IHC (Immunohistochemistry-Paraffin)
AAA31245 at 1/100 staining Human ovarian cancer by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4Â°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



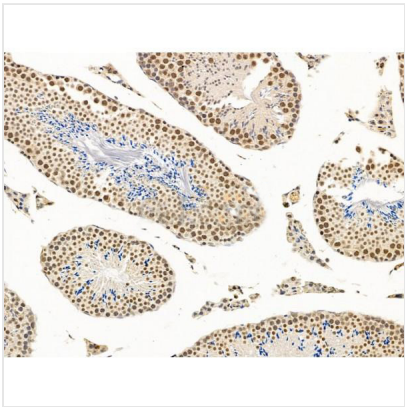
IHC (Immunohistochemistry-Paraffin)
AAA31245 at 1/100 staining Mouse brain tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4Â°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



IHC (Immunohistochemistry-Paraffin)
AAA31245 at 1/100 staining Mouse stomach tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4Â°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



IHC (Immunohistochemistry-Paraffin)
AAA31245 at 1/100 staining Mouse colorectal tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4Â°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



IHC (Immunohistochemistry-Paraffin)
AAA31245 at 1/100 staining Mouse testis tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4Â°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-SYNE1 antibody	Function: Multi-isomeric modular protein which forms a linking network between organelles and the actin cytoskeleton to maintain the subcellular spatial organization. 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. May be involved in nucleus-centrosome attachment and nuclear migration in neural progenitors implicating LINC complex association with SUN1/2 and probably association with cytoplasmic dynein-dynactin motor complexes; SYNE1 and SYNE2 may act redundantly. Required for centrosome migration to the apical cell surface during early ciliogenesis. May be involved in nuclear remodeling during sperm head formation in spermatogenesis; a probable SUN3:SYNE1/KASH1 LINC complex may tether spermatid nuclei to posterior cytoskeletal structures such as the manchette. Post Translational Modifications: The disulfid bond with SUN1 or SUN2 is required for stability of the respective LINC complex under tensile forces. Subcellular Location: Nucleus>outer membrane>Single-pass type IV membrane protein>Cytoplasmic side. Nucleus. Nucleus envelope. Cytoplasm>Cytoskeleton. Cytoplasm>Myofibril>Sarcomere. Note: The largest part of the protein is cytoplasmic, while its C-terminal part is associated with the nuclear envelope, most probably the outer nuclear membrane. In skeletal and smooth muscles, a significant amount is found in the sarcomeres. In myoblasts, relocalized from the nuclear envelope to the nucleus and cytoplasm during cell differentiation.Golgi apparatus. Tissue Specificity: Expressed in HeLa, A431, A172 and HaCaT cells (at protein level). Widely expressed. Highly expressed in skeletal and smooth muscles, heart, spleen, peripheral blood leukocytes, pancreas, cerebellum, stomach, kidney and placenta. Isoform GSRP-56 is predominantly expressed in heart and skeletal muscle (at protein level). Subunit Structure: Core component of LINC complexes which are composed of inner nuclear membrane SUN domain-containing proteins coupled to outer nuclear membrane KASH domain-containing nesprins. SUN and KASH domain-containing proteins seem to bind each other promiscuously; however, differentially expression of LINC complex constituents can give rise to specific assemblies. At least SUN1/2-containing core LINC complexes are proposed to be hexameric composed of three protomers of each KASH and SUN domain-containing protein. The SUN2:SYNE1/KASH1 LINC complex is a heterohexamer; the homotrimeric cloverleaf-like conformation of the SUN domain is a prerequisite for LINC complex formation in which three separate SYNE1/KASH1 peptides bind at the interface of adjacent SUN domains. Self-associates. Interacts with SYNE3. Interacts with SPAG4/SUN4. May interact with MUSK. Interacts with F-actin via its N-terminal domain. Interacts with EMD and LMNA in vitro. Similarity: The KASH domain, which contains a transmembrane domain, mediates the nuclear envelope targeting and is involved in the binding to SUN1 and SUN2 through recognition of their SUN domains.Belongs to the nesprin family.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	330688408
NCBI GeneID	23345
NCBI Accession #	NP_892006.3
NCBI GenBank Nucleotide #	NP_892006.3
UniProt Accession #	Q8NF91
Molecular Weight	Observed Molecular Weight: (Observed)1KkDa. Predicted Molecular Weight: (Calculated)1011kDa.
NCBI Official Full Name	nesprin-1 isoform 1 (nesprin-1 giant or enaptin)
NCBI Official Synonym Full Names	spectrin repeat containing nuclear envelope protein 1
NCBI Official Symbol	SYNE1
NCBI Official Synonym Symbols	8B; AMCM; CPG2; ARCA1; EDMD4; KASH1; MYNE1; Nesp1; SCAR8; C6orf98; dJ45H2.2
NCBI Protein Information	nesprin-1

UniProt Protein Name	Nesprin-1
UniProt Gene Name	SYNE1
UniProt Synonym Gene Names	C6orf98; KIAA0796; KIAA1262; KIAA1756; MYNE1; Myne-1; Syne-1
UniProt Entry Name	SYNE1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/nesprin-1-antibody-elisa/31245>