

Rabbit anti-Human, Mouse Nesprin3/SYNE3 Polyclonal Antibody | anti-SYNE3 antibody

Anti-Nesprin3/SYNE3 Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA19982	Rabbit	Human, Mouse	Western Blot, Immunohistochemistry, Flow Cytometry, Functional Assay, ELISA

PRODUCT SYNONYMS

Nesprin3/SYNE3; Polyclonal Antibody; Anti-Nesprin3/SYNE3 Antibody Picoband; Follicular dendritic cell secreted peptide; FDC secreted protein; FDC-SP; FDCSP; C4orf7; UNQ733/PRO1419; anti-SYNE3 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Abundantly expressed in tonsil, lymph node, and trachea; strong expression in prostate; lower expression in thyroid, stomach, and colon.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Applicable Applications for anti-SYNE3 antibody	WB (Western Blot), IHC (Immunohistochemistry), FCM/FACS (Flow Cytometry), ELISA
Application Notes	WB: 0.25-0.5ug/ml, Human IHC(Paraffin-embedded Section): 2-5ug/ml, Human, Mouse FC/FACS (Fixed): 1-3ug/1x10 ⁶ cells, Human ELISA: 0.1-0.5ug/ml
Immunogen	E coli-derived human Nesprin3/SYNE3 recombinant protein (Position: R322-L495).
Subcellular Localization	Secreted
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
Cross Reactivity	No cross-reactivity with other proteins
Protein Function	Can bind to the surface of B-lymphoma cells, but not T- lymphoma cells, consistent with a function as a secreted mediator acting upon B-cells.
Preparation and Storage	At -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months.Avoid repeated freezing and thawing.

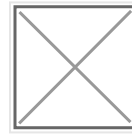


Figure 6. Flow Cytometry analysis of U87 cells using anti-Nesprin3/SYNE3 antibody (AAA19982). Overlay histogram showing U87 cells stained with AAA19982 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-Nesprin3/SYNE3 Antibody (AAA19982, 1 μ g/1x10⁶ cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1 μ g/1x10⁶) used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.

Figure 5. IHC analysis of Nesprin3/SYNE3 using anti-Nesprin3/SYNE3 antibody (AAA19982). Nesprin3/SYNE3 was detected in a paraffin-embedded section of mouse liver tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-Nesprin3/SYNE3 Antibody (AAA19982) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-Nesprin3/SYNE3 Antibody (AAA19982) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-Nesprin3/SYNE3 Antibody (AAA19982) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-Nesprin3/SYNE3 Antibody (AAA19982) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-Nesprin3/SYNE3 Antibody (AAA19982) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Lane 2: human Hela whole cell lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-Nesprin3/SYNE3 antigen affinity purified polyclonal antibody (#AAA19982) at 0.5ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for Nesprin3/SYNE3 at approximately 100 kDa. The expected band size for Nesprin3/SYNE3 is at 112 kDa.

Related Product Information for anti-SYNE3 antibody	The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Product Categories/Family for anti-SYNE3 antibody	Primary Antibodies ; Immunology ; Secreted Molecules
References	1. Gob, E., Schmitt, J., Benavente, R., Alsheimer, M. Mammalian sperm head formation involves different polarization of two novel LINC complexes. PLoS One 5: e12072, 2010. Note: Electronic Article. 2. Wilhelmssen, K., Litjens, S. H. M., Kuikman, I., Tshimbalanga, N., Janssen, H., van den Bout, I., Raymond, K., Sonnenberg, A. Nesprin-3, a novel outer nuclear membrane protein, associates with the cytoskeletal linker protein plectin. J. Cell Biol. 171: 799-810, 2005.

NCBI GI #	145580592
NCBI GeneID	161176
NCBI Accession #	NP_689805.3
NCBI GenBank Nucleotide #	NM_152592.3
UniProt Accession #	Q6ZMZ3; Q86SX5; Q8N7G8; A6H8H3
Molecular Weight	112,216 Da

NCBI Official Full Name	nesprin-3
NCBI Official Synonym Full Names	spectrin repeat containing, nuclear envelope family member 3
NCBI Official Symbol	SYNE3
NCBI Official Synonym Symbols	NET53; Nesp3; C14orf49
NCBI Protein Information	nesprin-3; nuclear envelope spectrin repeat protein 3
UniProt Protein Name	Nesprin-3
UniProt Gene Name	SYNE3
UniProt Synonym Gene Names	C14orf49
UniProt Entry Name	SYNE3_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://stage.aaabiotech.com/polyclonal/nesprin3-syne3-antibody-western-blot-immunohistochemistry-flow-cytometry-elisa/19982>