Rabbit NELF/NSMF Polyclonal Antibody | anti-NELF/NSMF antibody

Anti-NELF/NSMF Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127521	**Rabbit**	**Human, Mouse, Rat**	**ELISA, Flow Cytometry, Functional Assay, Immunohistochemistry, Western Blot**

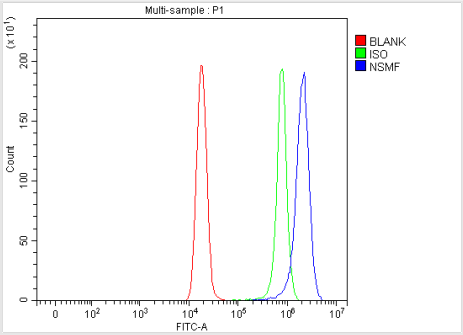
PRODUCT SYNONYMS

NELF/NSMF; Polyclonal Antibody; Anti-NELF/NSMF Antibody Picoband; Disintegrin and metalloproteinase domain-containing protein 2; ADAM 2; Cancer/testis antigen 15; CT15; Fertilin subunit beta; PH-30; PH30; PH30-beta; ADAM2; FTNB; anti-NELF/NSMF antibody

PRODUCT SPECIFICATIONS

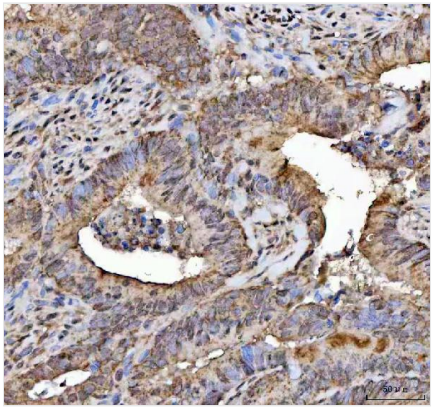
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Expressed specifically in spermatogenic cells in the seminiferous cells. Not detected in fetal tissues.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Applicable Applications for anti-NELF/NSMF antibody	ELISA, FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	E coli-derived human NELF/NSMF recombinant protein (Position: E14-D527).
Subcellular Localization	Membrane, Single-pass type I membrane protein
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	Sperm surface membrane protein that may be involved in sperm-egg plasma membrane adhesion and fusion during fertilization. Could have a role in sperm-zona binding or migration of sperm from the uterus into the oviduct. Interactions with egg membrane could be mediated via binding between its disintegrin-like domain to one or more integrins receptors on the egg. This is a non catalytic metalloprotease-like protein.
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.

IMAGES



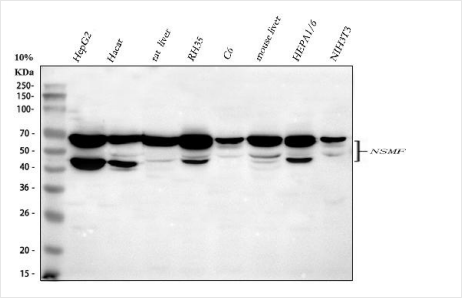
FCM/FACS (Flow Cytometry)

Figure 3. Flow Cytometry analysis of Hela cells using anti-NELF/NSMF antibody (AAA127521).Overlay histogram showing Hela cells stained with AAA127521 (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-NELF/NSMF Antibody (AAA127521, 1ug/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 (1ug/1x106) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



IHC (Immunohiostchemistry)

Figure 2. IHC analysis of NELF/NSMF using anti-NELF/NSMF antibody (AAA127521).NELF/NSMF was detected in a paraffin-embedded section of human colorectal adenocarcinoma 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-NELF/NSMF Antibody (AAA127521) 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 with DAB as the chromogen.



WB (Western Blot)

Figure 1. Western blot analysis of NELF/NSMF using anti-NELF/NSMF antibody (AAA127521).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.Lane 1: human HepG2 whole cell lysates,Lane 2: human Hacat whole cell lysates,Lane 3: rat liver tissue lysates,Lane 4: rat RH35 whole cell lysates,Lane 5: rat C6 whole cell lysates,Lane 6: mouse liver tissue lysates,Lane 7: mouse HEPA1-6 whole cell lysates,Lane 8: mouse NIH/3T3 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-NELF/NSMF antigen affinity purified polyclonal antibody (#AAA127521) 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 NELF/NSMF at approximately 44,60 kDa. The expected band size for NELF/NSMF is at 44,60 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-NELF/NSMF 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-NELF/NSMF antibody	Primary Antibodies; Cancer; Cell Biology; Cytoskeleton/ECM; ECM Enzymes; Extracellular Matrix; Invasion/Microenvironment; Metalloprotease; Proteolysis/Ubiquitin; Proteolytic Enzymes; Signal Transduction

References	1. Kramer, P. R., Wray, S. Novel gene expressed in nasal region influences outgrowth of olfactory axons and migration of luteinizing hormone-releasing hormone (LHRH) neurons. Genes Dev. 14: 1824-1834, 2000.2. Miura, K., Acierno, J. S., Jr., Seminara, S. B. Characterization of the human nasal embryonic LHRH factor gene, NELF, and a mutation screening among 65 patients with idiopathic hypogonadotropic hypogonadism (IHH). J. Hum. Genet. 49: 265-268, 2004. 3. Pitteloud, N., Quinton, R., Pearce, S., Raivio, T., Acierno, J., Dwyer, A., Plummer, L., Hughes, V., Seminara, S., Cheng, Y.-Z., Li, W.-P., Maccoll, G., Eliseenkova, A. V., Olsen, S. K., Ibrahimi, O. A., Hayes, F. J., Boepple, P., Hall, J. E., Bouloux, P., Mohammadi, M., Crowley, W., Jr. Digenic mutations account for variable phenotypes in idiopathic hypogonadotropic hypogonadism. J. Clin. Invest. 117: 457-463, 2007.

NCBI AND UNIPROT INFORMATION

NCBI GI #	71152011
NCBI GeneID	26012
UniProt Accession #	Q6X4W1; Q2TB96; Q6X4V7; Q6X4V8; Q6X4V9; Q8N2M2; Q96SY1; Q9NPM4; Q9NPP3; Q9NPS3
Molecular Weight	530
NCBI Official Full Name	NMDA receptor synaptonuclear signaling and neuronal migration factor
NCBI Official Synonym Full Names	NMDA receptor synaptonuclear signaling and neuronal migration factor
NCBI Official Symbol	NSMF
NCBI Official Synonym Symbols	HH9; NELF
NCBI Protein Information	NMDA receptor synaptonuclear signaling and neuronal migration factor; nasal embryonic LHRH factor; nasal embryonic luteinizing hormone-releasing hormone factor
UniProt Protein Name	NMDA receptor synaptonuclear signaling and neuronal migration factor
UniProt Gene Name	**NSMF**
UniProt Synonym Gene Names	NELF; Nasal embryonic LHRH factor
UniProt Entry Name	NSMF_HUMAN

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