

Rabbit NPEPPS Polyclonal Antibody | anti-NPEPPS antibody

Anti-NPEPPS Antibody Picoband

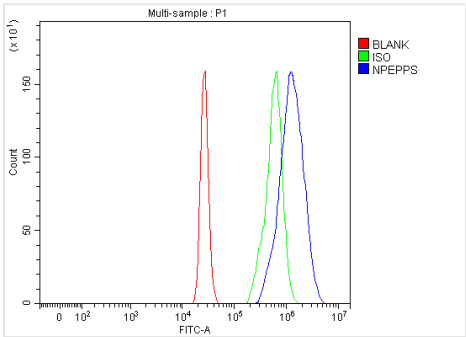
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127504	Rabbit	Human, Mouse, Rat	ELISA, Flow Cytometry, Functional Assay, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

NPEPPS; Polyclonal Antibody; Anti-NPEPPS Antibody Picoband; Chromaffin granule amine transporter; SRC kinase signaling inhibitor 1; SNAP-25-interacting protein; SNIP; p130Cas-associated protein; p140Cap; SRCIN1; KIAA1684; P140; anti-NPEPPS antibody

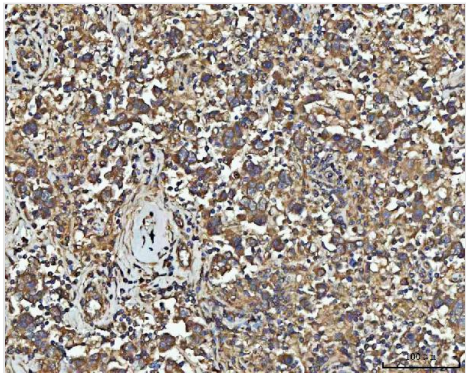
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Expressed in some primary breast carcinomas where its presence is significantly associated with increased tumor size. Not detected in normal breast tissue.
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-NPEPPS antibody	ELISA, FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	E coli-derived human NPEPPS recombinant protein (Position: Y532-A896).
Subcellular Localization	Postsynaptic density, Cytoskeleton, Cytoplasm, Axon, Dendrite, Synapse
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	Acts as a negative regulator of SRC by activating CSK which inhibits SRC activity and downstream signaling, leading to impaired cell spreading and migration. Regulates dendritic spine morphology. Involved in calcium-dependent exocytosis. May play a role in neurotransmitter release or synapse maintenance.
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.



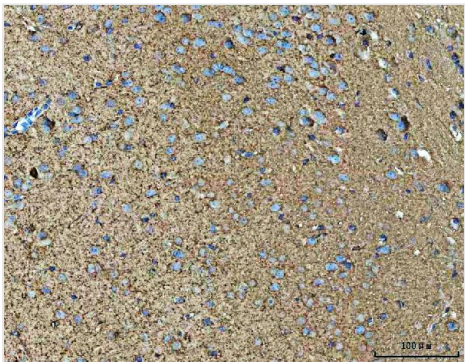
FCM/FACS (Flow Cytometry)

Figure 5. Flow Cytometry analysis of 293T cells using anti-NPEPPS antibody (AAA127504).Overlay histogram showing 293T cells stained with AAA127504 (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-NPEPPS Antibody (AAA127504, 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.



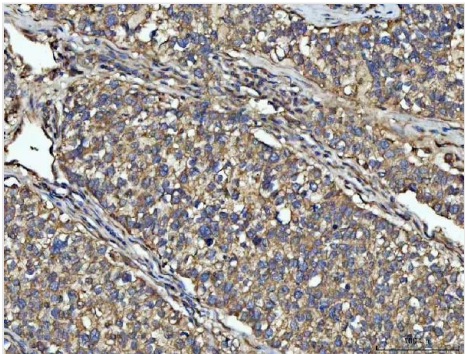
IHC (Immunohistochemisry)

Figure 3. IHC analysis of NPEPPS using anti-NPEPPS antibody (AAA127504).NPEPPS was detected in a paraffin-embedded section of human testicular germ cell tumors 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-NPEPPS Antibody (AAA127504) 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.



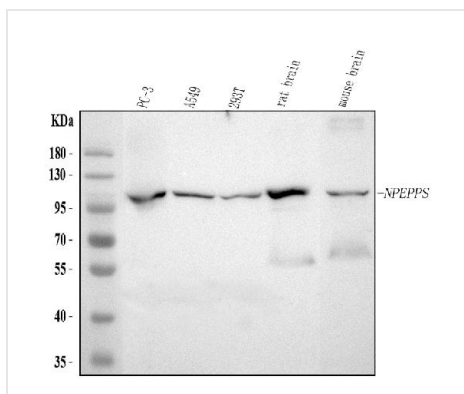
IHC (Immunohistochemistry)

Figure 4. IHC analysis of NPEPPS using anti-NPEPPS antibody (AAA127504).NPEPPS was detected in a paraffin-embedded section of mouse brain 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-NPEPPS Antibody (AAA127504) 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.



IHC (Immunohiostchemistry)

Figure 2. IHC analysis of NPEPPS using anti-NPEPPS antibody (AAA127504).NPEPPS was detected in a paraffin-embedded section of human non-small cell lung cancer 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-NPEPPS Antibody (AAA127504) 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 NPEPPS using anti-NPEPPS antibody (AAA127504). 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 PC-3 whole cell lysates, Lane 2: human A549 whole cell lysates, Lane 3: human 293T whole cell lysates, Lane 4: rat brain tissue lysates, Lane 5: mouse brain tissue 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-NPEPPS antigen affinity purified polyclonal antibody (#AAA127504) 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 NPEPPS at approximately 110 kDa. The expected band size for NPEPPS is at 110 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-NPEPPS 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-NPEPPS antibody	Primary Antibodies ; Co-Factors ; Epigenetics and Nuclear Signaling ; Mediator Complex ; Pol II Transcription ; Polymerase Associated Factors ; Transcription
References	1. Bauer, W. O., Nanda, I., Beck, G., Schmid, M., Jakob, F. Human puromycin-sensitive aminopeptidase: cloning of 3-prime UTR, evidence for a polymorphism at aa 140 and refined chromosomal localization to 17q21. Cytogenet. Cell Genet. 92: 221-224, 2001. 2. Huber, G., Thompson, A., Gruninger, F., Mechler, H., Hochstrasser, R., Hauri, H.-P., Malherbe, P. cDNA cloning and molecular characterization of human brain metalloprotease MP100: a beta-secretase candidate? J. Neurochem. 72: 1215-1223, 1999. 3. Karsten, S. L., Sang, T.-K., Gehman, L. T., Chatterjee, S., Liu, J., Lawless, G. M., Sengupta, S., Berry, R. W., Pomakian, J., Oh, H. S., Schulz, C., Hui, K.-S., Wiedau-Pazos, M., Vinters, H. V., Binder, L. I., Geschwind, D. H., Jackson, G. R. A genomic screen for modifiers of tauopathy identified puromycin-sensitive aminopeptidase as an inhibitor of tau-induced neurodegeneration. Neuron 51: 549-560, 2006.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4210726
NCBI GeneID	9520
UniProt Accession #	P55786 ; Q6P145 ; Q9NP16 ; Q9UEM2 ; B7Z463
Molecular Weight	94,516 Da
NCBI Official Full Name	puromycin sensitive aminopeptidase, partial
NCBI Official Synonym Full Names	aminopeptidase puromycin sensitive
NCBI Official Symbol	NPEPPS
NCBI Official Synonym Symbols	PSA; AAP-S; MP100

NCBI Protein Information	puromycin-sensitive aminopeptidase; metalloproteinase MP100; cytosol alanyl aminopeptidase
UniProt Protein Name	Puromycin-sensitive aminopeptidase
UniProt Gene Name	NPEPPS
UniProt Synonym Gene Names	PSA; PSA; AAP-S
UniProt Entry Name	PSA_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/npepps-antibody-flow-cytometry-immunohistochemistry-western-blot-elisa/127504>