

Rabbit anti-Human NEURL4 Polyclonal Antibody | anti-NEURL4 antibody

Anti-NEURL4 Antibody Picoband

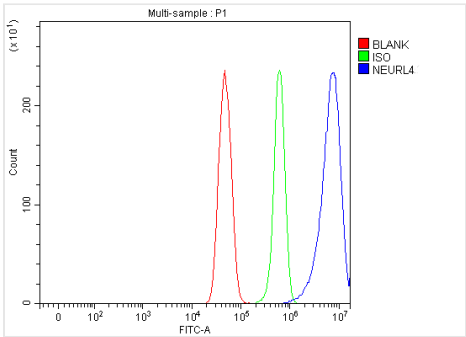
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127743	Rabbit	Human	ELISA, Flow Cytometry, Functional Assay, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

NEURL4; Polyclonal Antibody; Anti-NEURL4 Antibody Picoband; negative elongation factor complex member B; Negative elongation factor B; NELF-B; Cofactor of BRCA1; NELFB; COBRA1; KIAA1182; anti-NEURL4 antibody

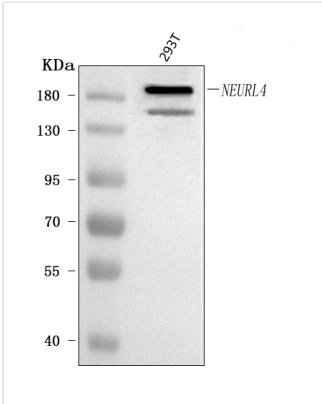
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Widely expressed.Expressed in heart, brain, lung, placenta, liver, skeletal muscle, kidney and pancreas.
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-NEURL4 antibody	ELISA, FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	E coli-derived human NEURL4 recombinant protein (Position: E519-E1562).
Subcellular Localization	Nucleus
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	Essential component of the NELF complex, a complex that negatively regulates the elongation of transcription by RNA polymerase II. The NELF complex, which acts via an association with the DSIF complex and causes transcriptional pausing, is counteracted by the P-TEFb kinase complex. The NELF complex is involved in HIV-1 latency possibly involving recruitment of PCF11 to paused RNA polymerase II. Binds RNA which may help to stabilize the NELF complex on nucleic acid. In vitro, binds weakly to the HIV-1 TAR RNA which is located in the long terminal repeat (LTR) of HIV-1. May be able to induce chromatin unfolding.
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.



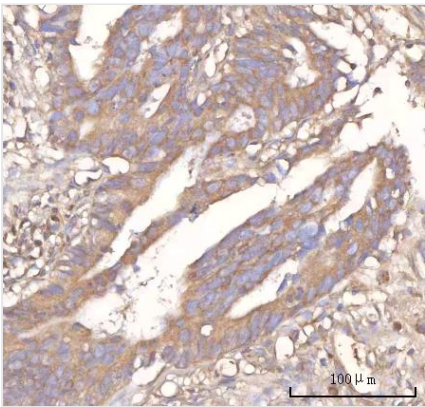
FCM/FACS (Flow Cytometry)

Figure 3. Flow Cytometry analysis of U251 cells using anti-NEURL4 antibody (AAA127743).Overlay histogram showing U251 cells stained with AAA127743 (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-NEURL4 Antibody (AAA127743, 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.



WB (Western Blot)

Figure 1. Western blot analysis of NEURL4 using anti-NEURL4 antibody (AAA127743).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 293T 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-NEURL4 antigen affinity purified polyclonal antibody (#AAA127743) 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 NEURL4 at approximately 185 kDa. The expected band size for NEURL4 is at 167 kDa.



IHC (Immunohistochemistry)

Figure 2. IHC analysis of NEURL4 using anti-NEURL4 antibody (AAA127743).NEURL4 was detected in a paraffin-embedded section of human rectum 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-NEURL4 Antibody (AAA127743) 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.

ADDITIONAL INFORMATION

Related Product Information for anti-NEURL4 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-NEURL4 antibody	Primary Antibodies; Epigenetics and Nuclear Signaling; Transcription

References	1. Hartz, P. A. Personal Communication. Baltimore, Md. 6/26/2014. 2. Li, J., Kim, S., Kobayashi, T., Liang, F.-X., Korzeniewski, N., Duensing, S., Dynlacht, B. D. Neurl4, a novel daughter centriole protein, prevents formation of ectopic microtubule organizing centres. EMBO Rep. 13: 547-553, 2012. 3. Nagase, T., Nakayama, M., Nakajima, D., Kikuno, R., Ohara, O. Prediction of the coding sequences of unidentified human genes. XX. The complete sequences of 100 new cDNA clones from brain which code for large proteins in vitro. DNA Res. 8: 85-95, 2001.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	53829368
NCBI GeneID	84461
NCBI Accession #	NP_001005408.1
NCBI GenBank Nucleotide #	NM_001005408.1
UniProt Accession #	Q96JN8; Q6GPI8; Q96IU9; Q9H0B0
Molecular Weight	166,907 Da
NCBI Official Full Name	neuralized-like protein 4 isoform 2
NCBI Official Synonym Full Names	neuralized E3 ubiquitin protein ligase 4
NCBI Official Symbol	NEURL4
NCBI Protein Information	neuralized-like protein 4; neuralized homolog 4
UniProt Protein Name	Neuralized-like protein 4
UniProt Gene Name	NEURL4
UniProt Synonym Gene Names	KIAA1787
UniProt Entry Name	NEUL4_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/neurl4-antibody-flow-cytometry-immunohistochemistry-western-blot-elisa/127743>