

Rabbit anti-Human NT5C1A Polyclonal Antibody | anti-NT5C1A antibody

Anti-NT5C1A Antibody Picoband

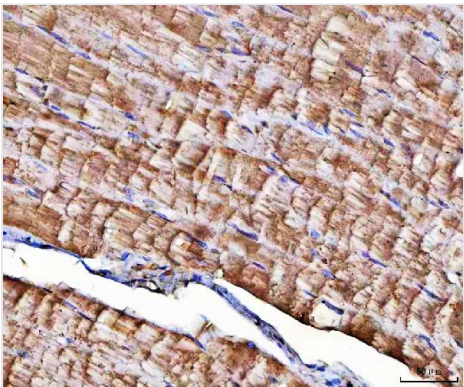
CATALOG # AAA127744	HOST Rabbit	REACTIVITY Human	APPLICATIONS ELISA, Immunohistochemistry, Western Blot
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PRODUCT SYNONYMS

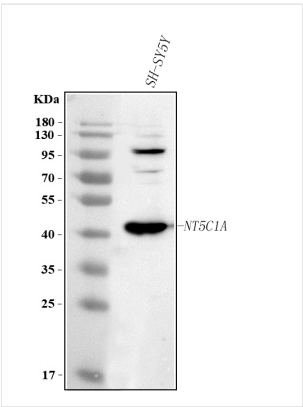
NT5C1A; Polyclonal Antibody; Anti-NT5C1A Antibody Picoband; negative elongation factor complex member B; Negative elongation factor B; NELF-B; Cofactor of BRCA1; NELFB; COBRA1; KIAA1182; anti-NT5C1A antibody

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-NT5C1A antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	E coli-derived human NT5C1A recombinant protein (Position: E2-Q368).
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.



IHC (Immunohistochemistry)
Figure 2. IHC analysis of NT5C1A using anti-NT5C1A antibody (AAA127744).NT5C1A was detected in a paraffin-embedded section of human skeletal muscle 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-NT5C1A Antibody (AAA127744) 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 NT5C1A using anti-NT5C1A antibody (AAA127744).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 SH-SY5Y 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-NT5C1A antigen affinity purified polyclonal antibody (#AAA127744) 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 NT5C1A at approximately 41 kDa. The expected band size for NT5C1A is at 41 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-NT5C1A 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-NT5C1A antibody	Primary Antibodies; Epigenetics and Nuclear Signaling; Transcription
References	1. Hunsucker, S. A., Spychala, J., Mitchell, B. S. Human cytosolic 5-prime-nucleotidase I: characterization and role in nucleoside analog resistance. J. Biol. Chem. 276: 10498-10504, 2001.

NCBI AND UNIPROT INFORMATION

NCBI GI #	14210538
NCBI GeneID	84618
NCBI Accession #	NP_115915.1
NCBI GenBank Nucleotide #	NM_032526.1
UniProt Accession #	Q9BXI3; Q3SYB9; Q5TG98; Q9BWT8
Molecular Weight	41,021 Da
NCBI Official Full Name	cytosolic 5'-nucleotidase 1A
NCBI Official Synonym Full Names	5'-nucleotidase, cytosolic 1A
NCBI Official Symbol	NT5C1A
NCBI Official Synonym Symbols	CN1; CNI; CN-I; CN1A; CN-IA
NCBI Protein Information	cytosolic 5'-nucleotidase 1A; AMP-specific 5'-NT; cytosolic 5'-nucleotidase 1A; cytosolic 5' nucleotidase, type 1A

UniProt Protein Name	Cytosolic 5'-nucleotidase 1A
UniProt Gene Name	NT5C1A
UniProt Synonym Gene Names	cN1A; cN-I; cN-IA
UniProt Entry Name	5NT1A_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/nt5c1a-antibody-immunohistochemistry-western-blot-elisa/127744>