Rabbit anti-Mouse, Rat Nedd4 Polyclonal Antibody | anti-NEDD4 antibody

Anti-Nedd4 Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA19414	**Rabbit**	**Mouse, Rat**	**Western Blot, Immunohistochemistry, Flow Cytometry, Functional Assay, ELISA**

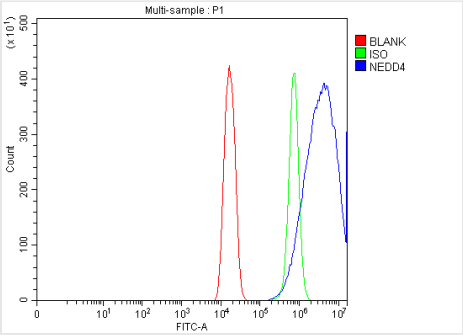
PRODUCT SYNONYMS

Nedd4; Polyclonal Antibody; Anti-Nedd4 Antibody Picoband; anti-NEDD4 antibody

PRODUCT SPECIFICATIONS

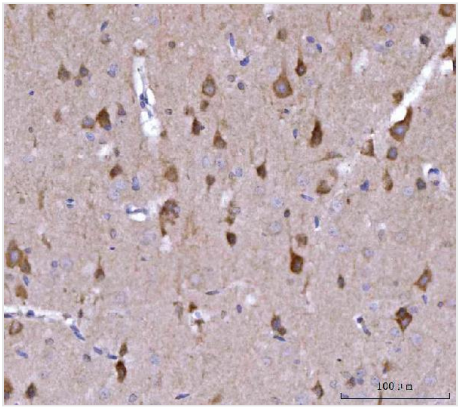
Host	Rabbit
Reactivity	Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Natural and recombinant Human CSF3
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml. (varies by lot)
Applicable Applications for anti-NEDD4 antibody	WB (Western Blot), IHC (Immunohistochemistry), FCM/FACS (Flow Cytometry), ELISA
Application Notes	WB: 0.25-0.5 ug/ml, Mouse, Rat IHC-P: 2-5 ug/ml, Mouse, Rat FC/FACS: 1-3 ug/1x10^6 cells, Mouse Direct ELISA: 0.1-0.5 ug/ml, Mouse Tested Species: In-house tested species with positive results. Enhanced Chemiluminescent Kit with anti-Rabbit IgG for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit for IHC(P).
Samples	Cell culture supernatants, serum and plasma (heparin, EDTA, citrate)
Detection Range	31.2 pg/ml - 2,000 pg/ml
Immunogen	E Coli-derived mouse Nedd4 recombinant protein (Position: A7-L655).
Preparation and Storage	Store 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



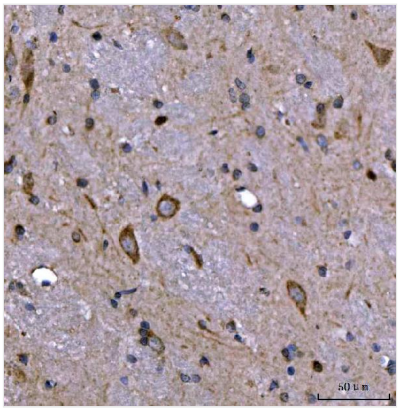
FCM (Flow Cytometry)

Figure 6. Flow Cytometry analysis of HEPA1-6 cells using anti-Nedd4 antibody (AAA19414).Overlay histogram showing HEPA1-6 cells stained with AAA19414 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-Nedd4 Antibody (AAA19414, 1 ug/1x10^6 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 ug/1x10^6) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



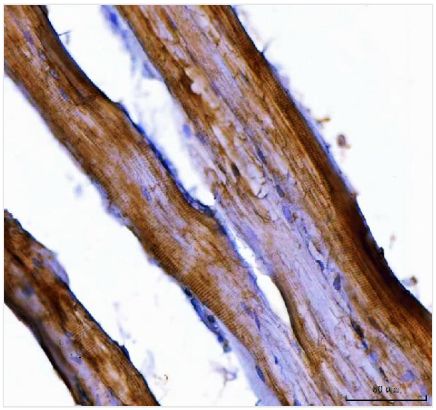
IHC (Immunohistochemistry)

Figure 5. IHC analysis of Nedd4 using anti-Nedd4 antibody (AAA19414).Nedd4 was detected in a paraffin-embedded section of rat 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 2 ug/ml rabbit anti-Nedd4 Antibody (AAA19414) 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.



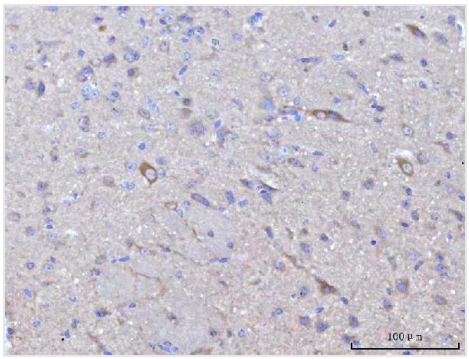
IHC (Immunohistochemistry)

Figure 4. IHC analysis of Nedd4 using anti-Nedd4 antibody (AAA19414).Nedd4 was detected in a paraffin-embedded section of rat 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 2 ug/ml rabbit anti-Nedd4 Antibody (AAA19414) 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.

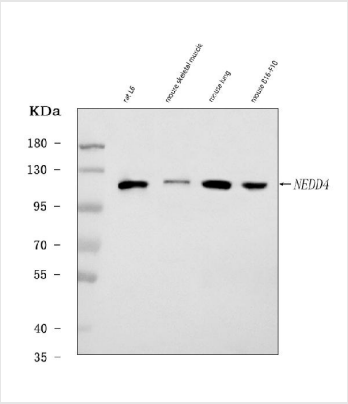


IHC (Immunohistochemistry)

Figure 3. IHC analysis of Nedd4 using anti-Nedd4 antibody (AAA19414).Nedd4 was detected in a paraffin-embedded section of mouse 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 2 ug/ml rabbit anti-Nedd4 Antibody (AAA19414) 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 2. IHC analysis of Nedd4 using anti-Nedd4 antibody (AAA19414).Nedd4 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 2 ug/ml rabbit anti-Nedd4 Antibody (AAA19414) 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 Nedd4 using anti-Nedd4 antibody (AAA19414).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: rat L6 whole cell lysates,Lane 2: mouse skeletal muscle tissue lysates,Lane 3: mouse lung tissue lysates,Lane 4: mouse B16-F10 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-Nedd4 antigen affinity purified polyclonal antibody (#AAA19414) at 0.25 ug/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 Nedd4 at approximately 115 kDa. The expected band size for Nedd4 is at 149 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-NEDD4 antibody	Background: Granulocyte colony-stimulating factor (G-CSF) is a member of the CSF family of hormone-like glycoprotein that regulates hematopoietic cell proliferation and differentiation, and it almost exclusively stimulates the colony formation of granulocytes from committed precursor cells in semisolid agar culture. G-CSF is also termed colony stimulating factor-3, and a single gene of which codes for a 177 or 180 amino acid mature protein of molecular weight 19,600. Functionally, it specifically stimulates the proliferation and differentiation of the progenitor cells for granulocytes. The effect of G-CSF on myeloid leukemias is unique among colony stimulating factors in driving the leukemic cells from a self-renewing malignant state to a mature differentiated phenotype with the concomitant loss of tumorigenicity. Besides, it also prevents cardiac remodeling after myocardial infarction by activating the Jak-Stat pathway in cardiomyocytes. The recombinant form of hG-CSF is capable of supporting neutrophil proliferation in a CFU-GM assay as well as early erythroid colonies and mixed colony formation. Human gene coding for G-CSF is assigned to the q21-q22 region of chromosome 17. The standard product used in this kit is recombinant human G-CSF, consisting of 175 amino acids with the molecular mass of 18.8KDa.
Product Categories/Family for anti-NEDD4 antibody	Primary Antibodies, Rabbit Polyclonal Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	32172436
NCBI GeneID	17999
UniProt Accession #	P46935; O08758; Q3UZI2; Q8BGB3
Molecular Weight	102,706 Da
NCBI Official Full Name	E3 ubiquitin-protein ligase NEDD4
NCBI Official Synonym Full Names	neural precursor cell expressed, developmentally down-regulated 4
NCBI Official Symbol	Nedd4
NCBI Official Synonym Symbols	Nedd4a; Nedd4-1; AA959633; AL023035; AU019897; mKIAA0093; E430025J12Rik

NCBI Protein Information	E3 ubiquitin-protein ligase NEDD4; NEDD-4; neural precursor cell expressed, developmentally down-regulted gene 4; neural precursor cell expressed, developmentally down-regulated gene 4; neural precursor cell expressed, developmentally down-regulated gene
UniProt Protein Name	E3 ubiquitin-protein ligase NEDD4
UniProt Gene Name	**Nedd4**
UniProt Synonym Gene Names	Kiaa0093; Nedd-4; Nedd4-1; Nedd4a; NEDD-4
UniProt Entry Name	NEDD4_MOUSE

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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