

Rabbit anti-Human N4BP1 Polyclonal Antibody | anti-N4BP1 antibody

Anti-N4BP1 Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127758	Rabbit	Human	ELISA, Flow Cytometry, Functional Assay, Immunofluorescence, Immunocytochemistry, Western Blot

PRODUCT SYNONYMS

N4BP1; Polyclonal Antibody; Anti-N4BP1 Antibody Picoband; histone cluster 1 H3 family member a/b/c/d/e/f/g/h/i/j; Histone H3/a; Histone H3/b; Histone H3/c; Histone H3/d; Histone H3/f; Histone H3/h; Histone H3/l; Histone H3/j; Histone H3/k; Histone H3/l; HIST1H3A; HIST1H3B; HIST1H3C; HIST1H3D; HIST1H3E; HIST1H3F; HIST1H3G; HIST1H3H; HIST1H3I; HIST1H3J; H3FJ; anti-N4BP1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Expressed in fetal brain, fetal lung, fetal liver, heart, brain, placenta, lung, liver, 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 Na ₂ HPO ₄ .
Applicable Applications for anti-N4BP1 antibody	ELISA, FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Immunogen	E coli-derived human N4BP1 recombinant protein (Position: M1-K885).
Subcellular Localization	Cytoplasm
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	Core component of nucleosome. Nucleosomes wrap and compact DNA into chromatin, limiting DNA accessibility to the cellular machineries which require DNA as a template. Histones thereby play a central role in transcription regulation, DNA repair, DNA replication and chromosomal stability. DNA accessibility is regulated via a complex set of post-translational modifications of histones, also called histone code, and nucleosome remodeling.
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 JK cells using anti-N4BP1 antibody (AAA127758).Overlay histogram showing JK cells stained with AAA127758 (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-N4BP1 Antibody (AAA127758, 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 N4BP1 using anti-N4BP1 antibody (AAA127758).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 RT4 whole cell lysates,Lane 3: human Jurkat 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-N4BP1 antigen affinity purified polyclonal antibody (#AAA127758) 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 N4BP1 at approximately 110 kDa. The expected band size for N4BP1 is at 100 kDa.



IF (Immunofluorescence)
Figure 2. IF analysis of N4BP1 using anti-N4BP1 antibody (AAA127758).N4BP1 was detected in an immunocytochemical section of HELA cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5ug/mL rabbit anti-N4BP1 Antibody (AAA127758) overnight at 4 degree C. Cy3 Conjugated Goat Anti-Rabbit IgG (BA1032) was used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37 degree C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.

ADDITIONAL INFORMATION

Related Product Information for anti-N4BP1 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-N4BP1 antibody	Primary Antibodies; DNA/RNA; DNA Synthesis; Epigenetics and Nuclear Signaling; RNA Processing
References	1. Gitlin, A. D., Heger, K., Schubert, A. F., Reja, R., Yan, D., Pham, V. C., Suto, E., Zhang, J., Kwon, Y. C., Freund, E. C., Kang, J., Pham, A., and 13 others. Integration of innate immune signalling by caspase-8 cleavage of N4BP1. Nature 587: 275-280, 2020. 2. Gross, M. B. Personal Communication. Baltimore, Md. 12/23/2020.3. Murillas, R., Simms, K. S., Hatakeyama, S., Weissman, A. M., Kuehn, M. R. Identification of developmentally expressed proteins that functionally interact with Nedd4 ubiquitin ligase. J. Biol. Chem. 277: 2897-2907, 2002.

NCBI AND UNIPROT INFORMATION

NCBI GI #	48928019
NCBI GeneID	9683
NCBI Accession #	NP_694574.3
NCBI GenBank Nucleotide #	NM_153029.3
UniProt Accession #	O75113; Q2YDX1; A7MD49
Molecular Weight	100,379 Da
NCBI Official Full Name	NEDD4-binding protein 1

NCBI Official Synonym Full Names	NEDD4 binding protein 1
NCBI Official Symbol	N4BP1
NCBI Protein Information	NEDD4-binding protein 1
UniProt Protein Name	NEDD4-binding protein 1
UniProt Gene Name	N4BP1
UniProt Synonym Gene Names	KIAA0615; N4BP1
UniProt Entry Name	N4BP1_HUMAN

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/n4bp1-antibody-flow-cytometry-immunofluorescence-immunocytochemistry-western-blot-elisa/127758>