

Rabbit anti-Human NUBP1 Polyclonal Antibody | anti-NUBP1 antibody

Anti-NUBP1 Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127532	Rabbit	Human	ELISA, Flow Cytometry, Functional Assay, Immunofluorescence, Immunocytochemistry, Western Blot

PRODUCT SYNONYMS

NUBP1; Polyclonal Antibody; Anti-NUBP1 Antibody Picoband; PHD finger protein 21A; BHC80a; BRAF35-HDAC complex protein BHC80; PHF21A; BHC80; KIAA1696; BM-006; anti-NUBP1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Highly Expressed in brain. Expressed at much lower level in other tissues.
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-NUBP1 antibody	ELISA, FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Immunogen	E coli-derived human NUBP1 recombinant protein (Position: M1-Q311).
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	Component of the BHC complex, a corepressor complex that represses transcription of neuron-specific genes in non-neuronal cells. The BHC complex is recruited at RE1/NRSE sites by REST and acts by deacetylating and demethylating specific sites on histones, thereby acting as a chromatin modifier. In the BHC complex, it may act as a scaffold. Inhibits KDM1A-mediated demethylation of 'Lys-4' of histone H3 in vitro, suggesting a role in demethylation regulation.
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 K562 cells using anti-NUBP1 antibody (AAA127532).Overlay histogram showing K562 cells stained with AAA127532 (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-NUBP1 Antibody (AAA127532, 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 NUBP1 using anti-NUBP1 antibody (AAA127532).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 Hela whole cell lysates,Lane 2: human A549 whole cell lysates,Lane 3: human RT4 whole cell lysates,Lane 4: human U251 whole cell lysates,Lane 5: human Colo320 whole cell lysates,Lane 6: human HepG2 whole cell lysates,Lane 7: human U20S whole cell lysates,Lane 8: 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-NUBP1 antigen affinity purified polyclonal antibody (#AAA127532) 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 NUBP1 at approximately 35 kDa. The expected band size for NUBP1 is at 35 kDa.



IF (Immunofluorescence)

Figure 2. IF analysis of NUBP1 using anti-NUBP1 antibody (AAA127532).NUBP1 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-NUBP1 Antibody (AAA127532) 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-NUBP1 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-NUBP1 antibody	Primary Antibodies; Cancer; Cell Biology; Cytoskeleton/ECM; ECM Enzymes; Extracellular Matrix; Invasion/Microenvironment; Metalloprotease; Proteolysis/Ubiquitin; Proteolytic Enzymes; Signal Transduction
References	1. Hartz, P. A. Personal Communication. Baltimore, Md. 9/11/2012.2. Nakashima, H., Grahovac, M. J., Mazzarella, R., Fujiwara, H., Kitchen, J. R., Threat, T. A., Ko, M. S. H. Two novel mouse genes--Nubp2, mapped to the t-complex on chromosome 17, and Nubp1, mapped to the chromosome 16--establish a new gene family of nucleotide-binding proteins in eukaryotes. Genomics 60: 152-160, 1999.3. Shahrestanifar, M., Saha, D. P., Scala, L. A., Basu, A., Howells, R. D. Cloning of a human cDNA encoding a putative nucleotide-binding protein related to Escherichia coli MinD. Gene 147: 281-285, 1994.

NCBI AND UNIPROT INFORMATION

NCBI GI #	511772980
NCBI GeneID	4682
NCBI Accession #	NP_001265435.1
NCBI GenBank Nucleotide #	NM_001278506.1
UniProt Accession #	P53384; Q32M30; Q498A9; Q53FS7
Molecular Weight	33,412 Da

NCBI Official Full Name	cytosolic Fe-S cluster assembly factor NUBP1 isoform 2
NCBI Official Synonym Full Names	nucleotide binding protein 1
NCBI Official Symbol	NUBP1
NCBI Official Synonym Symbols	NBP; NBP1; NBP35
NCBI Protein Information	cytosolic Fe-S cluster assembly factor NUBP1
UniProt Protein Name	Cytosolic Fe-S cluster assembly factor NUBP1
UniProt Gene Name	NUBP1
UniProt Synonym Gene Names	NBP 1
UniProt Entry Name	NUBP1_HUMAN

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AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
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