

Rabbit CBP20/NCBP2 Polyclonal Antibody | anti-CBP20/NCBP2 antibody

Anti-CBP20/NCBP2 Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127493	Rabbit	Human, Mouse, Rat	ELISA, Flow Cytometry, Functional Assay, Immunofluorescence, Immunocytochemistry, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

CBP20/NCBP2; Polyclonal Antibody; Anti-CBP20/NCBP2 Antibody Picoband; Chromaffin granule amine transporter; BMP and activin membrane bound inhibitor; BMP and activin membrane-bound inhibitor homolog; Non-metastatic gene A protein; Putative transmembrane protein; NMA; BAMBI; anti-CBP20/NCBP2 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Expressed in adult liver.
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-CBP20/NCBP2 antibody	ELISA, FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ICC (Immunocytochemistry), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	E coli-derived human CBP20/NCBP2 recombinant protein (Position: S2-N102).
Subcellular Localization	Cytoplasm, Nucleus, Translocates to nuclear foci during heat shock
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	Negatively regulates TGF-beta signaling.
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.

IMAGES



FCM/FACS (Flow Cytometry)

Figure 5. Flow Cytometry analysis of U251 cells using anti-CBP20/NCBP2 antibody (AAA127493).Overlay histogram showing U251 cells stained with AAA127493 (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-CBP20/NCBP2 Antibody (AAA127493, 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.



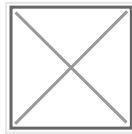
IF (Immunofluorescence)

Figure 4. IF analysis of CBP20/NCBP2 using anti-CBP20/NCBP2 antibody (AAA127493).CBP20/NCBP2 was detected in an immunocytochemical section of A549 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-CBP20/NCBP2 Antibody (AAA127493) 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. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



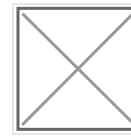
IHC (Immunohistochemisry)

Figure 3. IHC analysis of CBP20/NCBP2 using anti-CBP20/NCBP2 antibody (AAA127493).CBP20/NCBP2 was detected in a paraffin-embedded section of human adrenocortical adenoma 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-CBP20/NCBP2 Antibody (AAA127493) 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 CBP20/NCBP2 using anti-CBP20/NCBP2 antibody (AAA127493).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 CCRF-CEM whole cell lysates,Lane 2: human Hela whole cell lysates,Lane 3: human U251 whole cell lysates,Lane 4: human SH-SY5Y whole cell lysates,Lane 5: rat C6 whole cell lysates,Lane 6: mouse NIH/3T3 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-CBP20/NCBP2 antigen affinity purified polyclonal antibody (#AAA127493) at 0.25ug/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 CBP20/NCBP2 at approximately 18 kDa. The expected band size for CBP20/NCBP2 is at 18 kDa.



IHC (Immunohiostchemistry)

Figure 2. IHC analysis of CBP20/NCBP2 using anti-CBP20/NCBP2 antibody (AAA127493).CBP20/NCBP2 was detected in a paraffin-embedded section of human bladder urothelial carcinoma 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-CBP20/NCBP2 Antibody (AAA127493) 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-CBP20/NCBP2 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-CBP20/NCBP2 antibody	Primary Antibodies ; Atherosclerosis ; Cardiovascular ; Chaperones ; Heat Shock Proteins ; Protein Trafficking ; Signal Transduction
References	1. Gebhardt, A., Habjan, M., Benda, C., Meiler, A., Haas, D. A., Hein, M. Y., Mann, A., Mann, M., Habermann, B., Pichlmair, A. mRNA export through an additional cap-binding complex consisting of NCBP1 and NCBP3. Nature Commun. 6: 8192, 2015. Note: Electronic Article.2. Hartz, P. A. Personal Communication. Baltimore, Md. 10/28/2015.3. Izaurrealde, E., Lewis, J., Gamberi, C., Jarmolowski, A., McGuigan, C., Mattaj, I. W. A cap-binding protein complex mediating U snRNA export. Nature 376: 709-712, 1995.

NCBI AND UNIPROT INFORMATION

NCBI GI #	110349727
NCBI GeneID	22916
NCBI Accession #	NP_001036005.1
NCBI GenBank Nucleotide #	NM_001042540.1
UniProt Accession #	P52298 ; Q14924 ; Q2TS50 ; B2RE91 ; B4DMK7
Molecular Weight	18,001 Da
NCBI Official Full Name	nuclear cap-binding protein subunit 2 isoform 2

NCBI Official Synonym Full Names	nuclear cap binding protein subunit 2, 20kDa
NCBI Official Symbol	NCBP2
NCBI Official Synonym Symbols	CBC2; NIP1; CBP20; PIG55
NCBI Protein Information	nuclear cap-binding protein subunit 2; NCBP 20 kDa subunit; NCBP interacting protein 1; NCBP-interacting protein 1; 20 kDa nuclear cap-binding protein; cell proliferation-inducing gene 55 protein
UniProt Protein Name	Nuclear cap-binding protein subunit 2
UniProt Gene Name	NCBP2
UniProt Synonym Gene Names	CBP20; CBP20; NIP1
UniProt Entry Name	NCBP2_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://stage.aaabiotech.com/polyclonal/cbp20-ncbp2-antibody-flow-cytometry-immunofluorescence-immunocytochemistry-immunohistochemistry-western-blot-elisa/127493>