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antibody and ELISA experts

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Anti-NUBP1 Antibody Picoband®

Catalog Number: A08538-1

About NUBP1

NUBP1 also known as NBP as is expressed in several tissues with the highest being in the lung and testis. NUBP1 appears to interact with actin and the cytoskeleton and is required for centrosome duplication but it is also need for proper synthesis of iron sulfur proteins and the protein also binds ATP. NUBP1 has roles in cell growth, cellular iron homeostasis, centrosome localization, iron-sulfur cluster assembly, and apolipoprotein modification. NUBP1 is localized to the cytoplasm. Interestingly too, recent research indicates that mutations in NUBP1 in mice lead defects in lung development and eye cataracts, many of which are traced back to NUBP1 role in regulating centrosome dynamics and microtubule organization.

Overview

Product Name	Anti-NUBP1 Antibody Picoband®
Reactive Species	Human
Description	Boster Bio Anti-NUBP1 Antibody Picoband® catalog # A08538-1. Tested in ELISA, Flow Cytometry, IF, ICC, IHC, WB applications. This antibody reacts with Human. 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.
Application	ELISA, Flow Cytometry, IF, IHC, ICC, WB
Clonality	Polyclonal
Formulation	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Storage Instructions	At -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freezing and thawing.
Host	Rabbit
Uniprot ID	P53384

Technical Details

Immunogen	E.coli-derived human NUBP1 recombinant protein (Position: M1-Q311).
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for ICC.
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 µg/ml.

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Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.25-0.5 ug/ml, Human Immunohistochemistry(Paraffin-embedded Section), 2-5 ug/ml, Human Immunocytochemistry/Immunofluorescence, 5 ug/ml, Human Flow Cytometry (Fixed), 1-3 ug/1x10^6 cells, Human ELISA, 0.1-0.5 ug/ml, -

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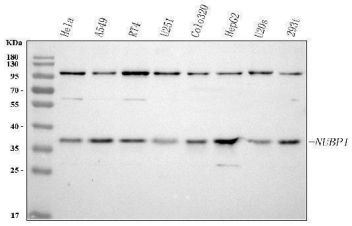
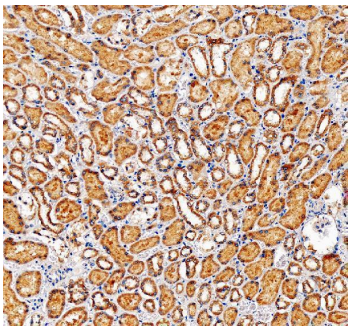
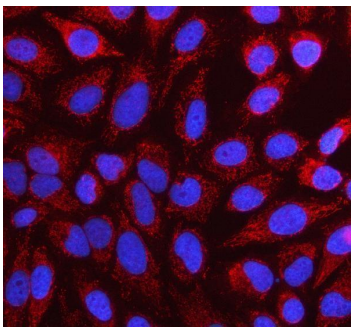
Anti-NUBP1 Antibody Picoband® (A08538-1) Images



Western blot analysis of NUBP1 using anti-NUBP1 antibody (A08538-1). 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 (Catalog # A08538-1) at 0.5 ug/mL overnight at 4°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 (Catalog # EK1002) 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.



IHC analysis of NUBP1 using anti-NUBP1 antibody (A08538-1). NUBP1 was detected in a paraffin-embedded section of human kidney 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-NUBP1 Antibody (A08538-1) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.



IF analysis of NUBP1 using anti-NUBP1 antibody (A08538-1). NUBP1 was detected in an immunocytochemical section of HELA cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (AR0022) for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5 ug/mL rabbit anti-NUBP1 Antibody (A08538-1) overnight at 4°C. Cy3 Conjugated Goat Anti-Rabbit IgG (BA1032) was used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37°C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.

Flow Cytometry analysis of K562 cells using anti-NUBP1 antibody (A08538-1). Overlay histogram showing K562 cells

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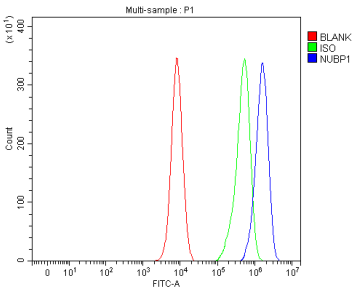

stained with A08538-1 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-NUBP1 Antibody (A08538-1, 1 ug/1x106 cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127, 5-10 ug/1x106 cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x106) used under the same conditions. Unlabelled sample (Red line) was also used as a control.

Anti-NUBP1 Antibody

For Research Use Only. Not for use in diagnostic procedures.