

Anti-IRF2BP1 Antibody Picoband®

Catalog Number: A11406-2

About IRF2BP1

IRF2BP1 (Interferon regulatory factor 2 binding protein 1) is a 64-66 kDa member of the IFR2BP family of proteins. It is widely expressed, and known to bind to the C-terminus of IRF-2, creating a transcriptional repressor complex. IRF2BP1 also bind to JDP2 (Jun dimerization protein 2), promoting its ubiquitination. Human IRF2BP1 is 584 amino acids (aa) in length. It contains two Zn-finger domains (aa 6-67 and 498-584), one coiled-coil region (aa 197-217), a Cys-rich region (aa 503-550), an N-terminal acetylation site at Ala2, and multiple utilized phosphorylation sites at Ser 66/125/186/384/421/436/453/457. Over aa 188-356, human and mouse IRF2BP1 are identical in amino acid sequence.

Overview

Product Name	Anti-IRF2BP1 Antibody Picoband®
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-IRF2BP1 Antibody Picoband® catalog # A11406-2. Tested in ELISA, Flow Cytometry, IP, IF, IHC, ICC, WB applications. This antibody reacts with Human, Mouse, Rat. 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, IP, IF, IHC, ICC, WB
Clonality	Polyclonal
Formulation	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
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	Q8IU81

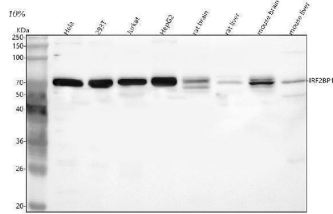
Technical Details

Immunogen	E.coli-derived human IRF2BP1 recombinant protein (Position: A71-D439). Human IRF2BP1 shares 95.1% amino acid (aa) sequence identity with mouse IRF2BP1.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.

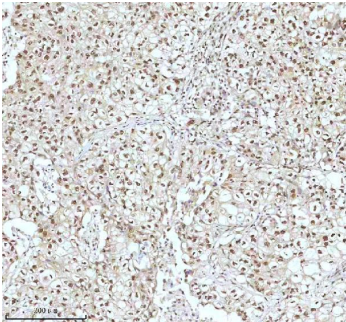
Suggested Dilutions

Western blot, 0.25-0.5 ug/ml, Human, Mouse, Rat
Immunohistochemistry(Paraffin-embedded Section), 2-5 ug/ml, Human, Mouse, Rat
Immunocytochemistry/Immunofluorescence, 5 ug/ml, Human
Immunoprecipitation, 0.5-2 ug/ml, Human
Flow Cytometry (Fixed), 1-3 ug/1x10⁶ cells, Human
ELISA, 0.1-0.5 ug/ml, -

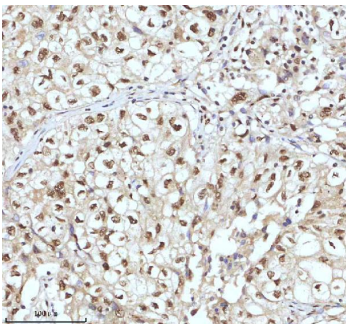
Anti-IRF2BP1 Antibody Picoband® (A11406-2) Images



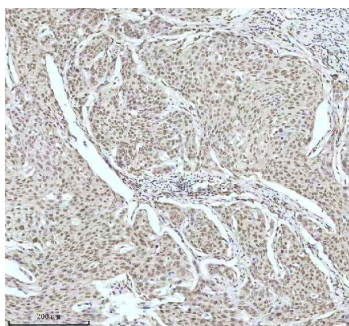
Western blot analysis of IRF2BP1 using anti-IRF2BP1 antibody (A11406-2). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human HeLa whole cell lysates, Lane 2: human 293T whole cell lysates, Lane 3: human Jurkat whole cell lysates, Lane 4: human HepG2 whole cell lysates, Lane 5: rat brain tissue lysates, Lane 6: rat liver tissue lysates, Lane 7: mouse brain tissue lysates, Lane 8: mouse liver tissue 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-IRF2BP1 antigen affinity purified polyclonal antibody (Catalog # A11406-2) 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 IRF2BP1 at approximately 72 kDa. The expected band size for IRF2BP1 is at 62 kDa.



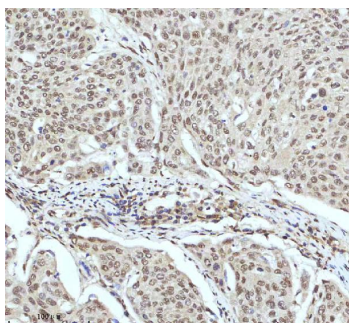
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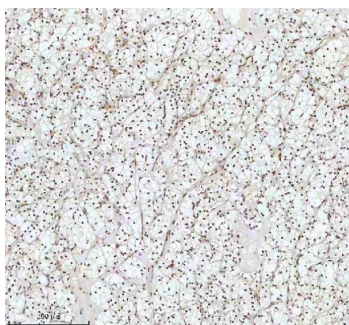
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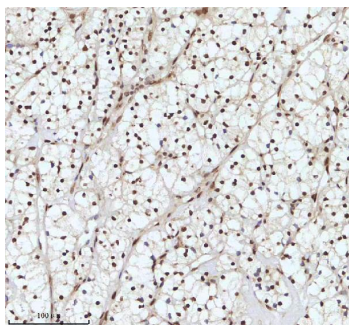
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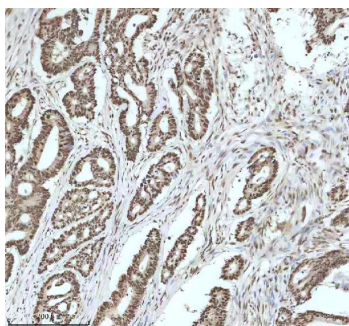


IHC analysis of IRF2BP1 using anti-IRF2BP1 antibody (A11406-2). IRF2BP1 was detected in a paraffin-embedded section of human clear cell renal carcinoma tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-IRF2BP1 Antibody (A11406-2) 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.

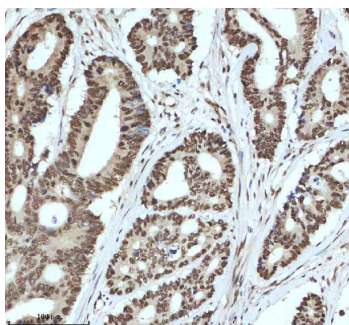


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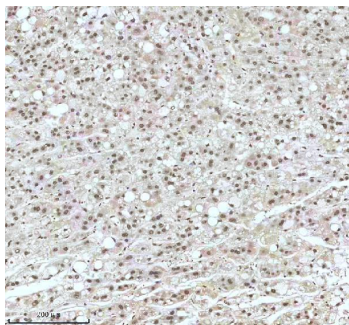
IHC analysis of IRF2BP1 using anti-IRF2BP1 antibody (A11406-2). IRF2BP1 was detected in a paraffin-embedded section of human colon adenocarcinoma tissue. Heat mediated antigen retrieval was performed in EDTA buffer



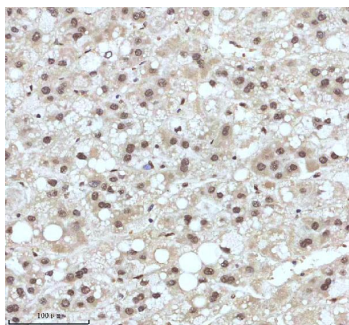
(pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-IRF2BP1 Antibody (A11406-2) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.



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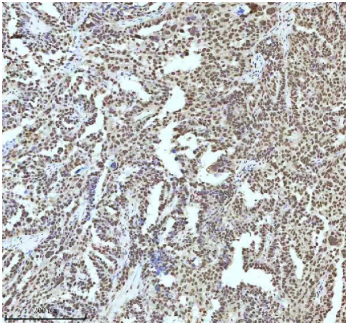


IHC analysis of IRF2BP1 using anti-IRF2BP1 antibody (A11406-2). IRF2BP1 was detected in a paraffin-embedded section of human liver cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-IRF2BP1 Antibody (A11406-2) 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.

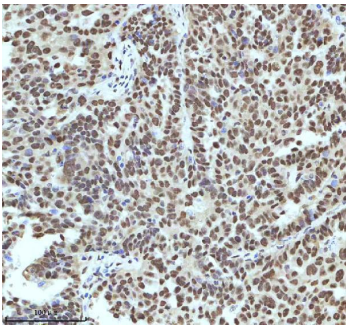


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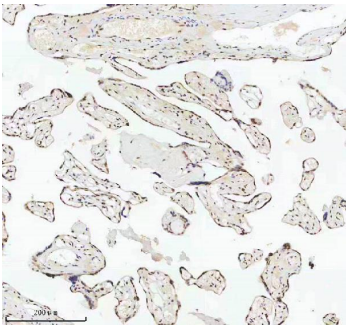
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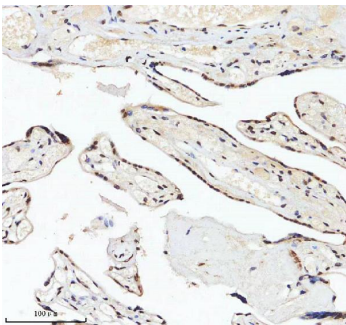
with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-IRF2BP1 Antibody (A11406-2) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.



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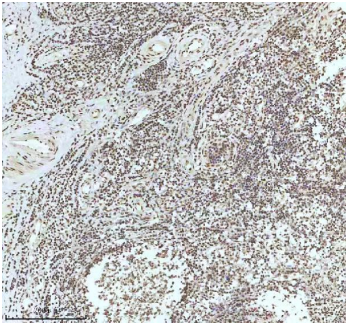


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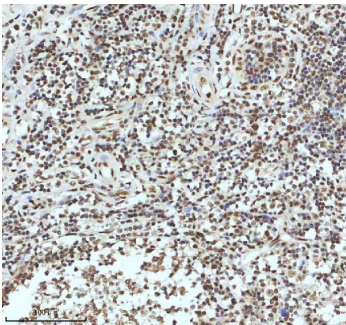


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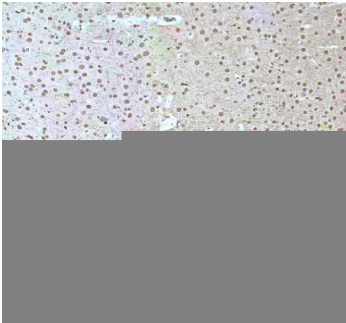
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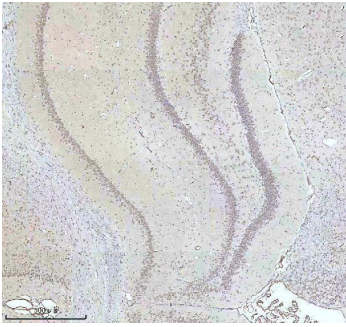


IHC analysis of IRF2BP1 using anti-IRF2BP1 antibody (A11406-2). IRF2BP1 was detected in a paraffin-embedded section of mouse brain tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-IRF2BP1 Antibody (A11406-2) 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.

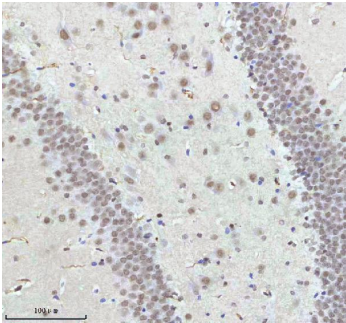


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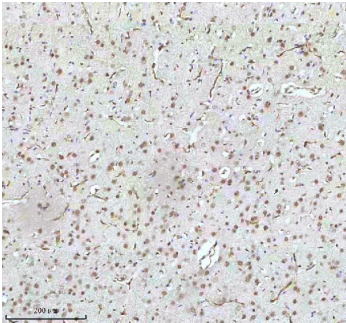
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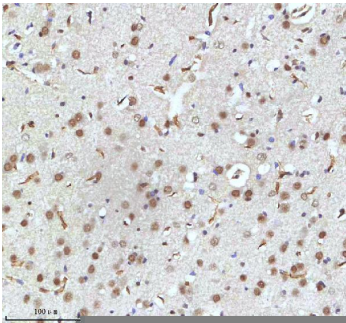
serum. The tissue section was then incubated with 2 ug/ml rabbit anti-IRF2BP1 Antibody (A11406-2) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.



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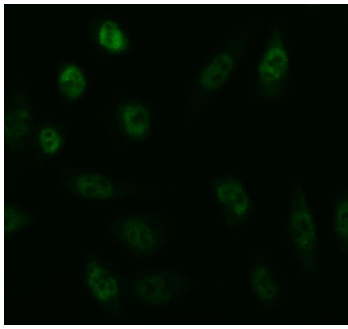


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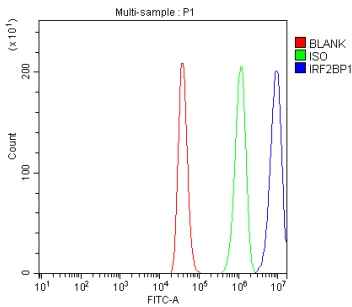


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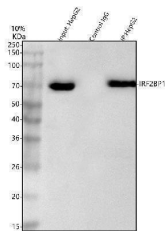
IF analysis of IRF2BP1 using anti-IRF2BP1 antibody (A11406-2). IRF2BP1 was detected in an immunocytochemical section of TPC1 cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (AR0022) for 15 mins. The cells were blocked with



10% goat serum. And then incubated with 5 ug/mL rabbit anti-IRF2BP1 Antibody (A11406-2) overnight at 4°C. DyLight®488 Conjugated Goat Anti-Rabbit IgG (BA1127) was used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37°C. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



Flow Cytometry analysis of HEL cells using anti-IRF2BP1 antibody (A11406-2). Overlay histogram showing HEL cells stained with A11406-2 (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-IRF2BP1 Antibody (A11406-2, 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.



Immunoprecipitating IRF2BP1 in HepG2 whole cell lysate. Western blot analysis of IRF2BP1 using anti-IRF2BP1 antibody (A11406-2); Lane 1: HepG2 whole cell lysates (30ug); Lane 2: Rabbit control IgG instead of anti-IRF2BP1 antibody in HepG2 whole cell lysate; Lane 3: anti-IRF2BP1 antibody (2ug) + HepG2 whole cell lysate (500ug). After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-IRF2BP1 antigen affinity purified polyclonal antibody (A11406-2) at a dilution of 0.5 ug/mL and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1196-200). A specific band was detected for IRF2BP1 at approximately 72 kDa. The expected band size for IRF2BP1 is at 62 kDa.

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Anti-IRF2BP1 Antibody

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