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antibody and ELISA experts

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Anti-DDX5 Antibody Picoband™ (monoclonal, 3F9)

Catalog Number: M00670-1

About DDX5

DDX5 (DEAD/H BOX 5), also known as HLR1 or G17P1, is an enzyme that in humans is encoded by the DDX5 gene. The p68 protein is a proliferation-associated nuclear antigen first identified through its highly specific cross-reaction with the simian virus 40 tumor antigen (Iggo et al., 1989). Subsequently, homology to eukaryotic translation initiation factor was found, and amino acid sequence blocks characteristic of a large superfamily of proteins with putative helicase activity were demonstrated. Brody et al. (1995) confirmed that this gene is located on chromosome 17 in the region of the BRCA1 gene at 17q21. By immunoprecipitation analysis, Caretti et al. (2006) found that p68, p72 (DDX17), and the noncoding RNA SRA (SRA1) associated with MYOD (MYOD1) in MYOD-transfected HeLa cells.

Overview

Product Name	Anti-DDX5 Antibody Picoband™ (monoclonal, 3F9)
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-DDX5 Antibody Picoband™ (monoclonal, 3F9) catalog # M00670-1. Tested in Flow Cytometry, IF, IHC, IHC-F, ICC, WB applications. This antibody reacts with Human, Mouse, Rat.
Application	Flow Cytometry, IF, IHC, IHC-F, ICC, WB
Clonality	Monoclonal 3F9
Formulation	Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na_2HPO_4, 0.05mg NaN_3.
Storage Instructions	Store 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 freeze-thaw cycles.
Host	Mouse
Uniprot ID	P17844

Technical Details

Immunogen	E.coli-derived human DDX5 recombinant protein (Position: R85-K328).
Predicted Reactive Species	Hepatitis Virus
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Mouse IgG (EK1001) for Western blot, and HRP Conjugated anti- Mouse IgG Super Vision Assay Kit (SV0001-1) for IHC(P), IHC(F) and ICC.
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Mouse IgG2b
Form	Lyophilized

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Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit. If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples. Some PubMed article(s) citing the expression level of this target are as follows: Boster Bio's internal QC testing used: Western blot, 0.1-0.5ug/ml, Human, Mouse, Rat Immunohistochemistry (Paraffin-embedded Section), 0.5-1ug/ml, Human, Mouse, Rat Immunohistochemistry (Frozen Section), 0.5-1ug/ml, Human Immunocytochemistry/Immunofluorescence, 2ug/ml, Human Immunofluorescence, 2ug/ml, Human, Mouse Flow Cytometry, 1-3ug/1x10^6 cells, Human

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Anti-DDX5 Antibody Picoband™ (monoclonal, 3F9) (M00670-1) Images

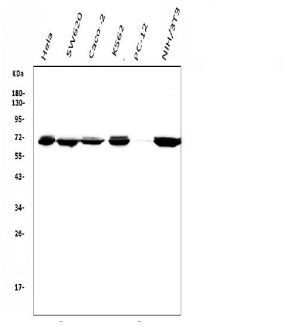

Figure 1. Western blot analysis of DDX5 using anti-DDX5 antibody (M00670-1).
Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions.
Lane 1: human Hela whole cell lysates;
Lane 2: human SW620 whole cell lysates;
Lane 3: human Caco-2 whole cell lysates;
Lane 4: human K562 whole cell lysates;
Lane 5: rat PC-12 whole cell lysates;
Lane 6: mouse NIH/3T3 whole cell lysates.
After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with mouse anti-DDX5 antigen affinity purified monoclonal antibody (Catalog # M00670-1) 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-mouse IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1001) with Tanon 5200 system. A specific band was detected for DDX5 at approximately 71KD. The expected band size for DDX5 is at 69KD.

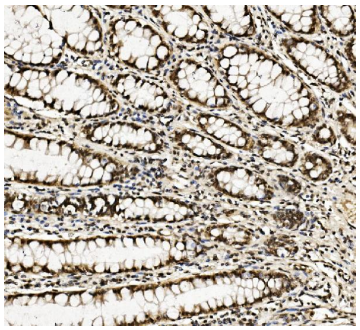

Figure 2. IHC analysis of DDX5 using anti-DDX5 antibody (M00670-1).
DDX5 was detected in paraffin-embedded section of human rectal cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml mouse anti-DDX5 Antibody (M00670-1) overnight at 4°C. Biotinylated goat anti-mouse IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) (Catalog # SA1021) with DAB as the chromogen.

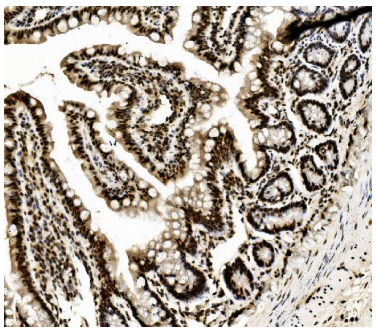

Figure 3. IHC analysis of DDX5 using anti-DDX5 antibody (M00670-1).
DDX5 was detected in paraffin-embedded section of rat intestine tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml mouse anti-DDX5 Antibody (M00670-1) overnight at 4°C. Biotinylated goat anti-mouse IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) (Catalog # SA1021) with DAB as the chromogen.

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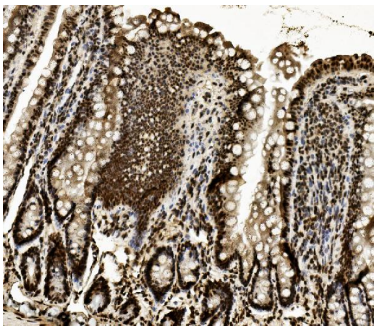

Figure 4. IHC analysis of DDX5 using anti-DDX5 antibody (M00670-1).
DDX5 was detected in paraffin-embedded section of rat intestine tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml mouse anti-DDX5 Antibody (M00670-1) overnight at 4°C. Biotinylated goat anti-mouse IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) (Catalog # SA1021) with DAB as the chromogen.

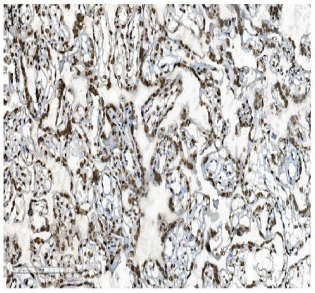

Figure 5. IHC analysis of DDX5 using anti-DDX5 antibody (M00670-1).
DDX5 was detected in frozen section of human placenta tissue. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml mouse anti-DDX5 Antibody (M00670-1) overnight at 4°C. Biotinylated goat anti-mouse IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC)(Catalog # SA1021) with DAB as the chromogen.

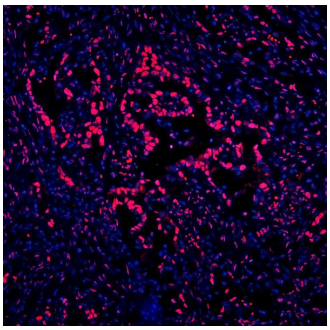

Figure 6. IF analysis of DDX5 using anti-DDX5 antibody (M00670-1).
DDX5 was detected in paraffin-embedded section of human intestine cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/mL mouse anti-DDX5 Antibody (M00670-1) overnight at 4°C. DyLight®594 Conjugated Goat Anti-Mouse IgG (BA1141) was used as secondary antibody at 1:100 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.

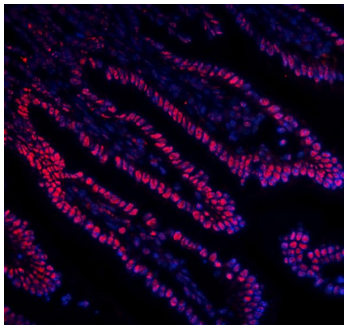

Figure 7. IF analysis of DDX5 using anti-DDX5 antibody (M00670-1).
DDX5 was detected in paraffin-embedded section of mouse intestine tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/mL mouse anti-DDX5 Antibody (M00670-1) overnight at 4°C. DyLight®594 Conjugated Goat Anti-Mouse IgG (BA1141) was used as secondary antibody at 1:100 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.

Figure 8. IF analysis of DDX5 using anti-DDX5 antibody (M00670-1).
DDX5 was detected in immunocytochemical section of A549 cells. Enzyme antigen retrieval was performed using IHC

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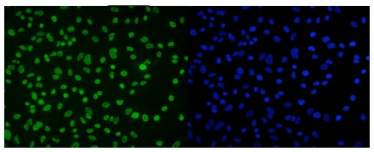

enzyme antigen retrieval reagent (AR0022) for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 2ug/mL mouse anti-DDX5 Antibody (M00670-1) overnight at 4°C. DyLight®488 Conjugated Goat Anti-Mouse IgG (BA1126) was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37°C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.

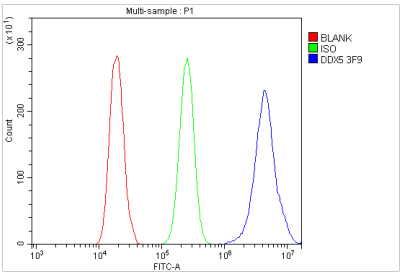

Figure 9. Flow Cytometry analysis of A431 cells using anti-DDX5 antibody (M00670-1).
Overlay histogram showing A431 cells stained with M00670-1 (Blue line).The cells were blocked with 10% normal goat serum. And then incubated with mouse anti-DDX5 Antibody (M00670-1, 1ug/1x10^6 cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-mouse IgG (BA1126, 5-10ug/1x10^6 cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was mouse IgG (1ug/1x10^6) used under the same conditions. Unlabelled sample (Red line) was also used as a control.

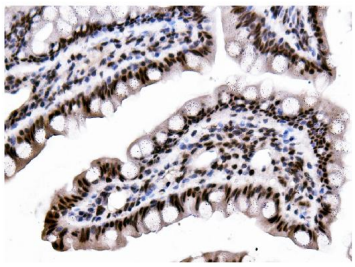

Figure 10. IHC analysis of Hexokinase 1/HK1 using anti-Hexokinase 1/HK1 antibody (M00670-1).
Hexokinase 1/HK1 was detected in a paraffin-embedded section of mouse intestine tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1 ug/ml mouse anti-Hexokinase 1/HK1 Antibody (M00670-1) overnight at 4°C. Biotinylated goat anti-mouse IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) (Catalog # SA1021) with DAB as the chromogen.