

## Anti-DDX6 Antibody Picoband™

Catalog Number: A03826-1

### About DDX6

DDX6 (DEAD/H BOX 6), also known as HLR2 or p54, is an enzyme that in humans is encoded by the DDX6 gene. DDX6 belongs to the DEAD box family of putative RNA helicases that contain a characteristic asp-glu-ala-asp (DEAD) box motif (Seto et al., 1995). Tunnacliffe et al. (1993) assigned the DDX6 gene more precisely using a panel of sequence tagged sites (STSs) representing 30 markers previously assigned to 11q23. Using mass spectroscopy, Fenger-Gron et al. (2005) found that RCK, EDC3 (YJDC), and HEDLS (RCD8) coimmunopurified with DCP1A and DCP2 from HEK293 cell lysates. Overexpression of DCP2, RCK, or EDC3 in HeLa cells reduced the association of endogenous DCP1A and XRN1 with cytoplasmic P bodies.

### Overview

Product Name	Anti-DDX6 Antibody Picoband™
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-DDX6 Antibody Picoband™ catalog # A03826-1. Tested in ELISA, Flow Cytometry, IF, IHC, ICC, WB applications. This antibody reacts with Human, Mouse, Rat.
Application	ELISA, Flow Cytometry, IF, IHC, ICC, WB
Clonality	Polyclonal
Formulation	Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.01mg NaN3.
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	Rabbit
Uniprot ID	P26196

### Technical Details

Immunogen	E.coli-derived human DDX6 recombinant protein (Position: Q56-P483).
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 IHC(P) and 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 ug/ml.

Purification	Immunogen affinity purified.
Suggested Dilutions	<p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>Western blot, 0.25-0.5ug/ml, Human, Mouse, Rat</p> <p>Immunohistochemistry (Paraffin-embedded Section), 2-5ug/ml, Human</p> <p>Immunocytochemistry/Immunofluorescence, 5ug/ml, Human</p> <p>Flow Cytometry, 1-3ug/1x10<sup>6</sup> cells, Human</p> <p>Direct ELISA, 0.1-0.5ug/ml, Human</p>

## Anti-DDX6 Antibody Picoband™ (A03826-1) Images

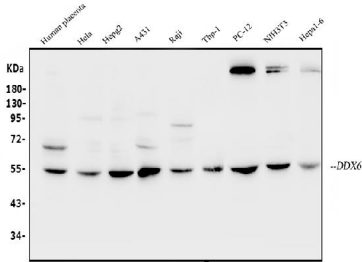


Figure 1. Western blot analysis of DDX6 using anti-DDX6 antibody (A03826-1).

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 placenta tissue lysates,  
Lane 2: human Hela whole cell lysates,  
Lane 3: human HepG2 whole cell lysates,  
Lane 4: human A431 whole cell lysates,  
Lane 5: human Raji whole cell lysates,  
Lane 6: human THP-1 whole cell lysates,  
Lane 7: rat PC-12 whole cell lysates,  
Lane 8: mouse NIH/3T3 whole cell lysates,  
Lane 9: mouse HEPA1-6 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 rabbit anti-DDX6 antigen affinity purified polyclonal antibody (Catalog # A03826-1) 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 1:10000 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 DDX6 at approximately 54KD. The expected band size for DDX6 is at 54KD.

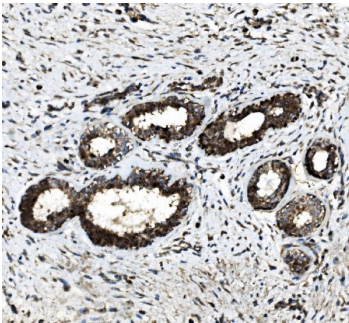


Figure 2. IHC analysis of DDX6 using anti-DDX6 antibody (A03826-1).

DDX6 was detected in paraffin-embedded section of human mammary 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 rabbit anti-DDX6 Antibody (A03826-1) overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB as the chromogen.

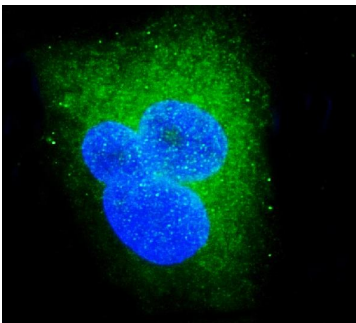


Figure 3. IF analysis of DDX6 using anti-DDX6 antibody (A03826-1).

DDX6 was detected in immunocytochemical section of A549 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 5ug/mL rabbit anti-DDX6 Antibody (A03826-1) overnight at 4°C. DyLight®488 Conjugated Goat Anti-Rabbit IgG (BA1127) 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.

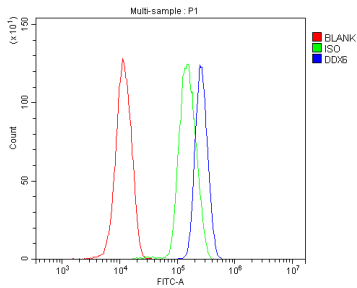


Figure 4. Flow Cytometry analysis of HL-60 cells using anti-DDX6 antibody (A03826-1). Overlay histogram showing HL-60 cells stained with A03826-1 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-DDX6 Antibody (A03826-1, 1 $\mu$ g/1 $\times$ 10<sup>6</sup> cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127, 5-10 $\mu$ g/1 $\times$ 10<sup>6</sup> cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1 $\mu$ g/1 $\times$ 10<sup>6</sup>) used under the same conditions. Unlabelled sample (Red line) was also used as a control.

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