

Rabbit DDX6 Polyclonal Antibody | anti-DDX6 antibody

Anti-DDX6 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA125706	Rabbit	Human, Mouse, Rat	ELISA, Flow Cytometry, Functional Assay, Immunofluorescence, Immunocytochemistry, Immunohistochemistry, Western Blot

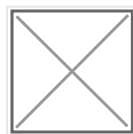
PRODUCT SYNONYMS

DDX6; Polyclonal Antibody; Anti-DDX6 Antibody; HLR2; RCK; Probable ATP-dependent RNA helicase DDX6; EC 3. 6. 4. 13; ATP-dependent RNA helicase p54; DEAD box protein 6; Oncogene RCK; DEAD-box helicase 6; anti-DDX6 antibody

PRODUCT SPECIFICATIONS

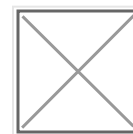
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Rabbit IgG polyclonal antibody for DDX6 detection.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.01mg NaN3.
Applicable Applications for anti-DDX6 antibody	ELISA (Direct ELISA), FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ICC (Immunocytochemistry), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	E Coli-derived human DDX6 recombinant protein (Position: Q56-P483).
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Recommended Detection Systems	Recommended Detection Systems
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

IMAGES



FCM/FACS (Flow Cytometry)

Figure 4. Flow Cytometry analysis of HL-60 cells using anti-DDX6 antibody (AAA125706). Overlay histogram showing HL-60 cells stained with AAA125706 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-DDX6 Antibody (AAA125706, 1µg/1x10⁶ cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG (5-10µg/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1µg/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



IF (Immunofluorescence)

Figure 3. IF analysis of DDX6 using anti-DDX6 antibody (AAA125706). DDX6 was detected in 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 5µg/mL rabbit anti-DDX6 Antibody (AAA125706) overnight at 4 degree C. DyLight488 Conjugated Goat Anti-Rabbit IgG was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37 degree C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



IHC (Immunohistochemistry)

Figure 2. IHC analysis of DDX6 using anti-DDX6 antibody (AAA125706). 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 2µg/ml rabbit anti-DDX6 Antibody (AAA125706) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



WB (Western Blot)

Figure 1. Western blot analysis of DDX6 using anti-DDX6 antibody (AAA125706). 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 # AAA125706) at 0.5 µg/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 1:10000 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 DDX6 at approximately 54KD. The expected band size for DDX6 is at 54KD.

ADDITIONAL INFORMATION

Related Product Information for anti-DDX6 antibody	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.
References	1. Fenger-Gron, M., Fillman, C., Norrild, B., Lykke-Andersen, J. Multiple processing body factors and the ARE binding protein TTP activate mRNA decapping. Molec. Cell 20: 905-915, 2005. 2. Seto, M., Yamamoto, K., Takahashi, T., Ueda, R. Cloning and expression of a murine cDNA homologous to the human RCK/P54, a lymphoma-linked chromosomal translocation junction gene on 11q23. Gene 166: 293-296, 1995. 3. Tunnacliffe, A., Perry, H., Radice, P., Budarf, M. L., Emanuel, B. S. A panel of sequence tagged sites for chromosome band 11q23. Genomics 17: 744-747, 1993.

NCBI AND UNIPROT INFORMATION

NCBI GI #	116241327
NCBI GeneID	1656
UniProt Accession #	P26196; Q5D048
Molecular Weight	483
NCBI Official Full Name	Probable ATP-dependent RNA helicase DDX6
NCBI Official Synonym Full Names	DEAD (Asp-Glu-Ala-Asp) box helicase 6
NCBI Official Symbol	DDX6
NCBI Official Synonym Symbols	P54; RCK; HLR2
NCBI Protein Information	probable ATP-dependent RNA helicase DDX6; DEAD box-6; oncogene RCK; DEAD box protein 6; ATP-dependent RNA helicase p54; DEAD (Asp-Glu-Ala-Asp) box polypeptide 6; DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 6 (RNA helicase, 54kD)
UniProt Protein Name	Probable ATP-dependent RNA helicase DDX6
UniProt Gene Name	DDX6
UniProt Synonym Gene Names	HLR2; RCK

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/ddx6-antibody-direct-elisa-flow-cytometry-immunofluorescence-immunocytochemistry-immunohistochemistry-western-blot-elisa/125706>