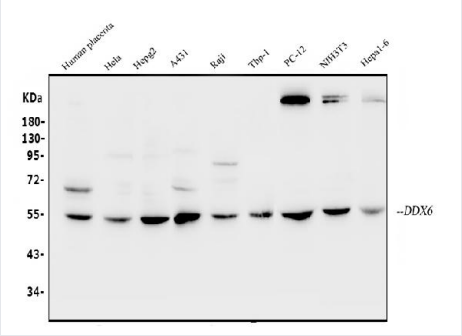
DDX6 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

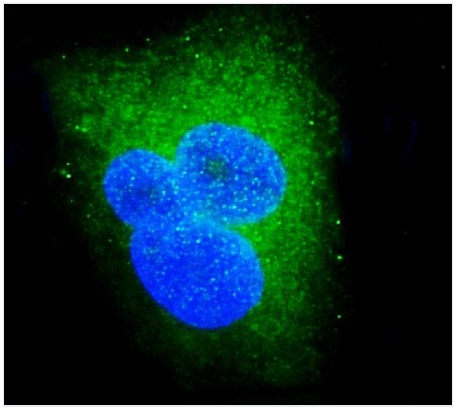
Product Name	DDX6, Polyclonal Antibody
Full Product Name	Anti-DDX6 Antibody
Product Gene Name	anti-DDX6 antibody
Product Synonym Names	DDX6; HLR2; RCK; Probable ATP-dependent RNA helicase DDX6; EC 3. 6. 4. 13; ATP-dependent RNA helicase p54; DEAD box protein 6; Oncogene RCK; DEAD-box helicase 6
Clonality	Polyclonal
Isotype	Rabbit IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Lyophilized. Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.01mg NaN3.
Purity/Purification	Immunogen affinity purified.
Specificity	Rabbit IgG polyclonal antibody for DDX6 detection.
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.
Molecular Weight	483
OMIM	600326
3D Structure	ModBase 3D Structure for P26196
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||Lab recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (MBS176460) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (MBS176453) for IHC(P) and ICC.
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Applications Tested/Suitable for anti-DDX6 antibody	Western Blot (WB), Immunohistochemistry-Paraffin (IHC-P), Immunocytochemistry (ICC), Immunofluorescence (IF), Flow Cytometry (FC/FACS/FCM), Direct ELISA (EIA)
Application Notes for anti-DDX6 antibody	WB: 0.25-0.5ug/ml|Human, Mouse, Rat| IHC-P: 2-5ug/ml|Human| ICC/IF: 5ug/ml|Human| FC/FACS/FCM: 1-3ug/1x106 cells|Human| Direct ELISA: 0.1-0.5ug/ml|Human|
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.

Product References and Citations for anti-DDX6 antibody	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.
Other Notes	Small volumes of anti-DDX6 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for DDX6 purchase	MBS1753621 is an antibody targeting DDX6. Reactive in Human, Mouse, Rat. Host: Rabbit.



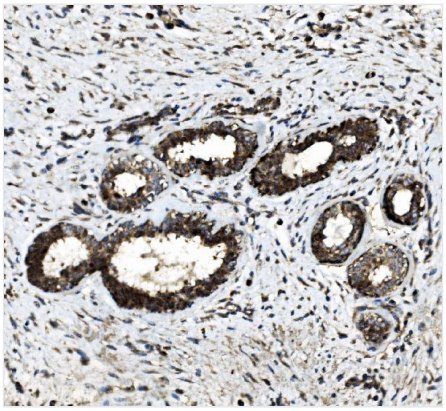
Western Blot (WB) of anti-DDX6 antibody

Figure 1. Western blot analysis of DDX6 using anti-DDX6 antibody (MBS1753621).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 lysatesLane 2: human Hela whole cell lysatesLane 3: human HepG2 whole cell lysatesLane 4: human A431 whole cell lysatesLane 5: human Raji whole cell lysatesLane 6: human THP-1 whole cell lysatesLane 7: rat PC-12 whole cell lysatesLane 8: mouse NIH/3T3 whole cell lysatesLane 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 # MBS1753621) at 0. 5 ?g/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 (Catalog # MBS176460) with Tanon 5200 system. A specific band was detected for DDX6 at approximately 54KD. The expected band size for DDX6 is at 54KD.



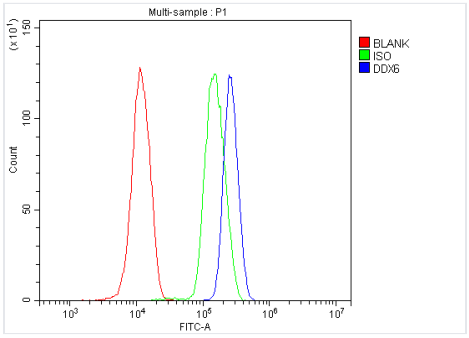
Immunofluorescence (IF) of anti-DDX6 antibody

Figure 3. IF analysis of DDX6 using anti-DDX6 antibody (MBS1753621).DDX6 was detected in immunocytochemical section of A549 cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (MBS176582) for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5?g/mL rabbit anti-DDX6 Antibody (MBS1753621) overnight at 4 degree C. DyLight®488 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.



Immunohistochemistry (IHC) of anti-DDX6 antibody

Figure 2. IHC analysis of DDX6 using anti-DDX6 antibody (MBS1753621).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 2?g/ml rabbit anti-DDX6 Antibody (MBS1753621) 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 Strepavidin-Biotin-Complex (SABC) (Catalog # MBS176451) with DAB as the chromogen.



Flow Cytometry (FC/FACS) of anti-DDX6 antibody

Figure 4. Flow Cytometry analysis of HL-60 cells using anti-DDX6 antibody (MBS1753621).Overlay histogram showing HL-60 cells stained with MBS1753621 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-DDX6 Antibody (MBS1753621,1?g/1x106 cells) for 30 min at 20 degree C. DyLight®488 conjugated goat anti-rabbit IgG (5-10?g/1x106 cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1?g/1x106) used under the same conditions. Unlabelled sample (Red line) was also used as a control.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for DDX6. It may not necessarily be applicable to this product.

NCBI GI #	116241327
NCBI GeneID	1656
NCBI Accession #	P26196.2
UniProt Primary Accession #	P26196
UniProt Secondary Accession #	Q5D048
UniProt Related Accession #	P26196
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
UniProt Protein Name	Probable ATP-dependent RNA helicase DDX6
UniProt Synonym Protein Names	ATP-dependent RNA helicase p54; DEAD box protein 6; Oncogene RCK
Protein Family	ATP-dependent RNA helicase
UniProt Gene Name	DDX6
UniProt Synonym Gene Names	HLR2; RCK
UniProt Entry Name	DDX6_HUMAN
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)
NCBI Summary for DDX6	This gene encodes a member of the DEAD box protein family. The protein is an RNA helicase found in P-bodies and stress granules, and functions in translation suppression and mRNA degradation. It is required for microRNA-induced gene silencing. Multiple alternatively spliced variants, encoding the same protein, have been identified. [provided by RefSeq, Mar 2012]
UniProt Comments for DDX6	DDX6: an oncogenic ATP-dependent helicase of the DEAD box family. Interacts with argonaute proteins, Ago1 and Ago2, and is a general repressor of translation in human cells by miRNA-induced gene silencing. In the process of mRNA degradation, may play a role in mRNA decapping. Protein type: RNA processing; Oncoprotein; EC 3.6.4.13; Helicase; RNA-binding Chromosomal Location of Human Ortholog: 11q23.3 Cellular Component: intracellular membrane-bound organelle; membrane; stress granule; cytoplasm; cytosol Molecular Function: protein domain specific binding; protein binding; helicase activity; ATP binding; RNA helicase activity Biological Process: gene expression; cytoplasmic mRNA processing body assembly; mRNA catabolic process, deadenylation-dependent decay
Research Articles on DDX6	**1.** CNOT1 facilitates recruitment of DDX6 to miRNA-targeted mRNAs, placing DDX6 as a downstream effector in the miRNA silencing pathway.
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