

Anti-DDX6 Antibody
Catalog # ABO11272**Specification**

Anti-DDX6 Antibody - Product Information

Application	WB
Primary Accession	P26196
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized

Description

Rabbit IgG polyclonal antibody for Probable ATP-dependent RNA helicase DDX6(DDX6) detection. Tested with WB in Human;Mouse;Rat.

Reconstitution

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-DDX6 Antibody - Additional Information

Gene ID 1656

Other Names

Probable ATP-dependent RNA helicase DDX6, 3.6.4.13, ATP-dependent RNA helicase p54, DEAD box protein 6, Oncogene RCK, DDX6, HLR2, RCK

Calculated MW

54417 MW KDa

Application Details

Western blot, 0.1-0.5 µg/ml, Human, Mouse, Rat

Subcellular Localization

Cytoplasm, P-body .

Tissue Specificity

Abundantly expressed in most tissues.

Protein Name

Probable ATP-dependent RNA helicase DDX6

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na₂HPO₄, 0.05mg Thimerosal, 0.05mg NaN₃.

Immunogen

A synthetic peptide corresponding to a sequence at the C-terminus of human DDX6(440-453aa YDDRFNLKSIEQL), identical to the related rat and mouse sequences.

Purification

Immunogen affinity purified.

Cross Reactivity

No cross reactivity with other proteins

Storage

At -20°C for one year. After r°Constitution, at 4°C for one month. It°Can also be aliquotted and stored frozen at -20°C for a longer time.Avoid repeated freezing and thawing.

Sequence Similarities

Belongs to the DEAD box helicase family. DDX6/DHH1 subfamily.

Anti-DDX6 Antibody - Protein Information

Name DDX6

Synonyms HLR2, RCK

Function

Essential for the formation of P-bodies, cytosolic membrane- less ribonucleoprotein granules involved in RNA metabolism through the coordinated storage of mRNAs encoding regulatory functions (PubMed:25995375, PubMed:27342281, PubMed:31422817). Plays a role in P- bodies to coordinate the storage of translationally inactive mRNAs in the cytoplasm and prevent their degradation (PubMed:27342281). In the process of mRNA degradation, plays a role in mRNA decapping (PubMed:16364915). Blocks autophagy in nutrient-rich conditions by repressing the expression of ATG-related genes through degradation of their transcripts (PubMed:26098573).

Cellular Location

Cytoplasm, P-body. Cytoplasm. Nucleus. Note=Imported in the nucleus via interaction with EIF4ENIF1/4E-T via a piggy-back mechanism (PubMed:28216671). Upon cellular stress, relocates to stress granules (PubMed:26184334).

Tissue Location

Abundantly expressed in most tissues.

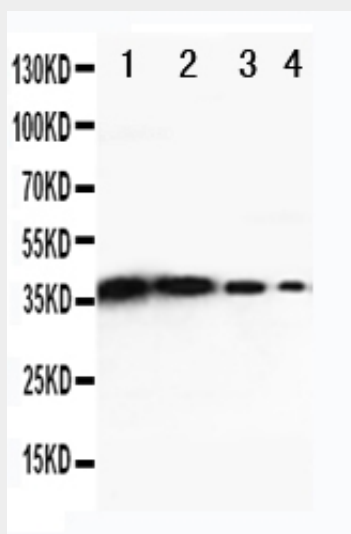
Anti-DDX6 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)

- [Cell Culture](#)

Anti-DDX6 Antibody - Images



Anti-DDX6 antibody, ABO11272, Western blotting Recombinant Protein Detection Source: E.coli derived -recombinant human DDX6, 41.8KD(162aa tag+S330-P483) Lane 1: Recombinant Human DDX6 Protein 10ng Lane 2: Recombinant Human DDX6 Protein 5ng Lane 3: Recombinant Human DDX6 Protein 2.5ng Lane 4: Recombinant Human DDX6 Protein 1.25ng

Anti-DDX6 Antibody - Background

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.