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DDX6 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP16996b

Product Information

Application	WB, E
Primary Accession	P26196
Other Accession	NP_004388.2
Reactivity	Human
Predicted	Mouse, Rat, Bovine, Canine, Rabbit, Chicken
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB36738
Calculated MW	54417
Antigen Region	455-483

Additional Information

Gene ID	1656
Other Names	Probable ATP-dependent RNA helicase DDX6, ATP-dependent RNA helicase p54, DEAD box protein 6, Oncogene RCK, DDX6, HLR2, RCK
Target/Specificity	This DDX6 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 455-483 amino acids from the C-terminal region of human DDX6.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	DDX6 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

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. Cytoplasm, Cytoplasmic ribonucleoprotein granule {ECO:0000250|UniProtKB:P54823}. Note=Imported in the nucleus via interaction with EIF4ENIF1/4E-T via a piggy-back mechanism (PubMed:28216671). Upon cellular stress, relocalizes to stress granules (PubMed:26184334).
Tissue Location	Abundantly expressed in most tissues.

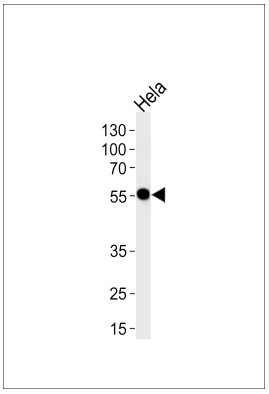
Background

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.

References

Naarmann, I.S., et al. RNA 16(11):2189-2204(2010)
Jangra, R.K., et al. J. Virol. 84(13):6810-6824(2010)
Lind, P.A., et al. Twin Res Hum Genet 13(1):10-29(2010)
Han, J.W., et al. Nat. Genet. 41(11):1234-1237(2009)
Minshall, N., et al. Mol. Biol. Cell 20(9):2464-2472(2009)

Images



Western blot analysis of lysate from Hela cell line, using DDX6 Antibody (C-term)(Cat. #AP16996b). AP16996b was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody. Lysate at 35ug per lane.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.