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Goat Anti-DEAD-box protein 6 Antibody

Peptide-affinity purified goat antibody
Catalog # AF1312a

Specification

Goat Anti-DEAD-box protein 6 Antibody - Product Information

Application	**WB, E**
Primary Accession	P26196
Other Accession	NP_004388, 1656
Reactivity	**Human**
Predicted	**Mouse, Rat, Dog**
Host	**Goat**
Clonality	**Polyclonal**
Concentration	**100ug/200ul**
Isotype	**IgG**
Calculated MW	**54417**

Goat Anti-DEAD-box protein 6 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

Dilution
WB~~1:1000
E~~N/A

Format
0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
Goat Anti-DEAD-box protein 6 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-DEAD-box protein 6 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. 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.

Goat Anti-DEAD-box protein 6 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 Cytomety
- Cell Culture

Goat Anti-DEAD-box protein 6 Antibody - Images

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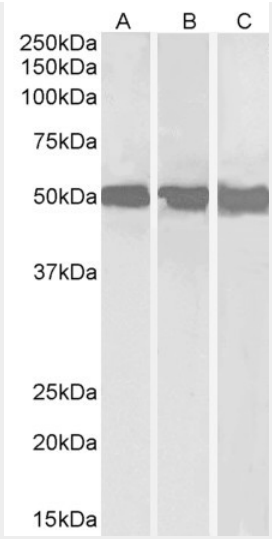

AF1312a (0.3µg/ml) staining of Daudi (A), Jurkat (B) and HepG2 (C) lysates (35µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence

Goat Anti-DEAD-box protein 6 Antibody - 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.

Goat Anti-DEAD-box protein 6 Antibody - References

DDX6 (Rck/p54) is required for efficient hepatitis C virus replication but not for internal ribosome entry site-directed translation. Jangra RK, et al. J Virol, 2010 Jul. PMID 20392846.
A genomewide association study of nicotine and alcohol dependence in Australian and Dutch populations. Lind PA, et al. Twin Res Hum Genet, 2010 Feb. PMID 20158304.
Genome-wide association study in a Chinese Han population identifies nine new susceptibility loci for systemic lupus erythematosus. Han JW, et al. Nat Genet, 2009 Nov. PMID 19838193.
Role of p54 RNA helicase activity and its C-terminal domain in translational repression, P-body localization and assembly. Minshall N, et al. Mol Biol Cell, 2009 May. PMID 19297524.
Structural basis for the mutually exclusive anchoring of P body components EDC3 and Tral to the DEAD box protein DDX6/Me31B. Tritschler F, et al. Mol Cell, 2009 Mar 13. PMID 19285948.