



DHX36 Mouse mAb

Catalog No	YP-mAb-18993
Isotype	IgG
Reactivity	Human,Mouse,Rat
Applications	WB
Gene Name	DHX36 DDX36 KIAA1488 MLEL1 RHAU
Protein Name	Probable ATP-dependent RNA helicase DHX36 (DEAH box protein 36) (MLE-like protein 1) (RNA helicase associated with AU-rich element ARE)
Immunogen	Synthesized peptide derived from human DHX36
Specificity	This antibody detects endogenous levels of DHX36 at Human, Mouse
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal,Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	
Observed Band	
Calculated Molecular Weight	111kD
Cell Pathway	Nucleus . Cytoplasm . Cytoplasm, cytosol . Cytoplasm, Stress granule . Nucleus speckle . Chromosome, telomere . Mitochondrion . Perikaryon . Cell projection, dendrite . Cell projection, axon . Predominantly localized in the nucleus (PubMed:18279852). Colocalizes with SRSF2 in nuclear speckles (PubMed:18279852). Colocalizes with DDX5 in nucleolar caps upon transcription inhibition (PubMed:18279852). Accumulates and colocalized with TIA1 in cytoplasmic stress granules (SGs) in an arsenite-, heat shock- and RNA-binding-dependent manner (PubMed:18854321). Shuttles into and out of SGs in an ATPase-dependent manner (PubMed:18854321). Colocalizes in the cytosol with the multi-helicase-TICAM1 complex that translocates to the mitochondria upon poly(I:C) RNA ligand stimulation (By similarity). .; [Isoform 1]: Nucleus . Cytoplasm . Preferentially localized in the nucleus (PubMed:14731398). Excluded from nucleoli (PubMed:14731398). .; [Isoform 2]: Nucleus . Cytoplasm . Preferentially localized in the cytoplasm (PubMed:14731398). Excluded from nucleoli (PubMed:14731398). .
Tissue Specificity	Highly expressed in testis.



Function

Multifunctional ATP-dependent helicase that unwinds G-quadruplex (G4) structures . Plays a role in many biological processes such as genomic integrity, gene expression regulations and as a sensor to initiate antiviral responses . G4 structures correspond to helical structures containing guanine tetrads (By similarity). Binds with high affinity to and unwinds G4 structures that are formed in nucleic acids (G4-ADN and G4-RNA) . Plays a role in genomic integrity . Converts the G4-RNA structure present in telomerase RNA template component (TREC) into a double-stranded RNA to promote P1 helix formation that acts as a template boundary ensuring accurate reverse transcription . Plays a role in transcriptional regulation . Resolves G4-DNA structures in promoters of genes, such as YY1, KIT/c-kit and ALPL and positively regulates their expression . Plays a role in post-transcriptional regulation . Unwinds a G4-RNA structure located in the 3'-UTR polyadenylation site of the pre-mRNA TP53 and stimulates TP53 pre-mRNA 3'-end processing in response to ultraviolet (UV)-induced DNA damage . Binds to the precursor-microRNA-134 (pre-miR-134) terminal loop and regulates its transport into the synapto-dendritic compartment (By similarity). Involved in the pre-miR-134-dependent inhibition of target gene expression and the control of dendritic spine size (By similarity). Plays a role in the regulation of cytoplasmic mRNA translation and mRNA stability . Binds to both G4-RNA structures and alternative non-quadruplex-forming sequence within the 3'-UTR of the PITX1 mRNA regulating negatively PITX1 protein expression . Binds to both G4-RNA structure in the 5'-UTR and AU-rich elements (AREs) localized in the 3'-UTR of NKX2-5 mRNA to either stimulate protein translation or induce mRNA decay in an ELAVL1-dependent manner, respectively . Binds also to ARE sequences present in several mRNAs mediating exosome-mediated 3'-5' mRNA degradation . Involved in cytoplasmic urokinase-type plasminogen activator (uPA) mRNA decay . Component of a multi-helicase-TICAM1 complex that acts as a cytoplasmic sensor of viral double-stranded RNA (dsRNA) and plays a role in the activation of a cascade of antiviral responses including the induction of pro-inflammatory cytokines via the adapter molecule TICAM1 (By similarity). Required for early embryonic development and hematopoiesis. Involved in the regulation of cardioblast differentiation and proliferation during heart development. Involved in spermatogonia differentiation. May play a role in ossification (By similarity).

Background

matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images

