

Product Name: KD-Validated DDX50 Mouse Monoclonal Antibody**Catalog #: KVA00552**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Mouse
Application	WB,ICC
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Mouse IgG2b
Clonality	Mouse mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:500-1:2,500; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 82.6kDa

Antigen Information

Gene Name	DDX50
Alternative Names	DDX50; DExD-Box Helicase 50; RH-II/GuB; GU2; GUB; DEAD (Asp-Glu-Ala-Asp) Box Polypeptide 50; ATP-Dependent RNA Helicase DDX50; DEAD-Box Helicase 50; DEAD Box Protein 50; MGC3199; Gu-Beta; Malignant Cell Derived RNA Helicase; RNA Helicase II/Gu Beta; Nucleolar Protein GU2; Nucleolar Protein Gu2; EC 3.6.4.13; EC 3.6.1; Mcdrh
Gene ID	79009.0
SwissProt ID	Q9BQ39
Immunogen	Recombinant protein of human DDX50

Background

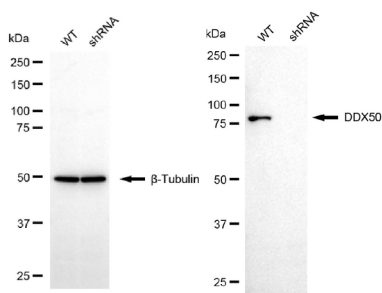
DEAD box proteins, characterized by the conserved motif Asp-Glu-Ala-Asp (DEAD), are putative RNA helicases. They are

implicated in a number of cellular processes involving alteration of RNA secondary structure such as translation initiation, nuclear and mitochondrial splicing, and ribosome and spliceosome assembly. Based on their distribution patterns, some members of this DEAD box protein family are believed to be involved in embryogenesis, spermatogenesis, and cellular growth and division. This gene encodes a DEAD box enzyme that may be involved in ribosomal RNA synthesis or processing. This gene and DDX21, also called RH-II/GuA, have similar genomic structures and are in tandem orientation on chromosome 10, suggesting that the two genes arose by gene duplication in evolution. This gene has pseudogenes on chromosomes 2, 3 and 4. Alternative splicing of this gene generates multiple transcript variants, but the full length nature of all the other variants but one has not been defined. [provided by RefSeq, Jul 2008]

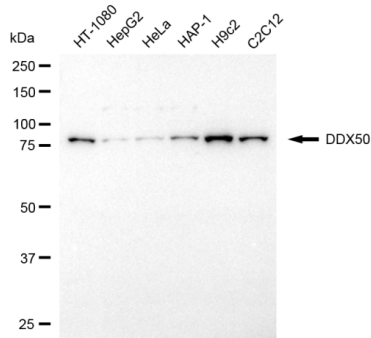
Research Area

Cancer

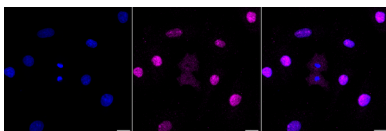
Image Data



Western blotting analysis using DDX50 antibody (KVA00552). DDX50 expression in wild type (WT) and DDX50 shRNA knockdown (KD) HT-1080 cells with 20 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with DDX50 antibody (KVA00552, 1:2,500) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



Western blotting analysis using DDX50 antibody (KVA00552). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with DDX50 antibody (KVA00552, 1:2,500) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



Immunocytochemical staining of H9c2 cells with DDX50 antibody (KVA00552, 1:1,000). Nuclei were stained blue with DAPI; DDX50 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Low. Scale bar, 20 µm.