

Product Name: KD-Validated DDX5 Recombinant Rabbit Monoclonal Antibody**Catalog #: KVA01584**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC,IHC-P
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit 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 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000; IHC-P 1:100-1:200
Molecular Weight	Calculated MW: 69.1kDa

Antigen Information

Gene Name	DDX5 DDX5; DEAD-Box Helicase 5; G17P1; HLR1; P68; DEAD/H (Asp-Glu-Ala-Asp/His); Box Polypeptide 5 (RNA Helicase, 68kD); DEAD (Asp-Glu-Ala-Asp) Box; Polypeptide 5; Probable
Alternative Names	ATP-Dependent RNA Helicase DDX5; DEAD (Asp-Glu-Ala-Asp) Box Helicase 5; DEAD Box Protein 5; RNA Helicase P68; ATP-Dependent RNA Helicase DDX5; EC 3.6.4.13; DEAD Box-5; EC 3.6.1; HUMP68; HELR
Gene ID	1655.0
SwissProt ID	P17844
Immunogen	A synthesized peptide derived from human DDX5

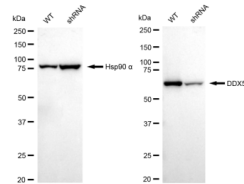
Background

This gene encodes a member of the DEAD box family of RNA helicases that are involved in a variety of cellular processes as a result of its role as an adaptor molecule, promoting interactions with a large number of other factors. This protein is involved in pathways that include the alteration of RNA structures, plays a role as a coregulator of transcription, a regulator of splicing, and in the processing of small noncoding RNAs. Members of this family contain nine conserved motifs, including the conserved Asp-Glu-Ala-Asp (DEAD) motif, important to ATP binding and hydrolysis as well as RNA binding and unwinding activities. Dysregulation of this gene may play a role in cancer development. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2017]

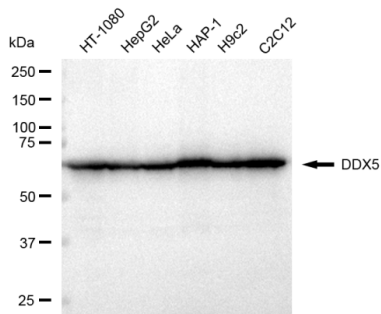
Research Area

Epigenetics and Nuclear Signaling

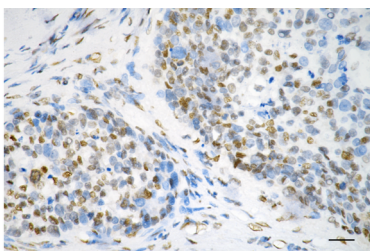
Image Data



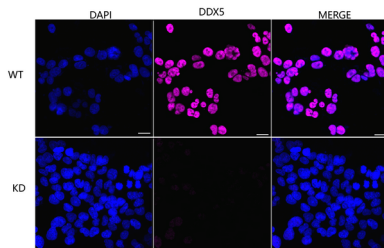
Western blotting analysis using DDX5 antibody (KVA01584). DDX5 expression in wild type (WT) and DDX5 shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with DDX5 antibody (KVA01584, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



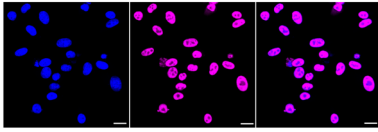
Western blotting analysis using DDX5 antibody (KVA01584). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with DDX5 antibody (KVA01584, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



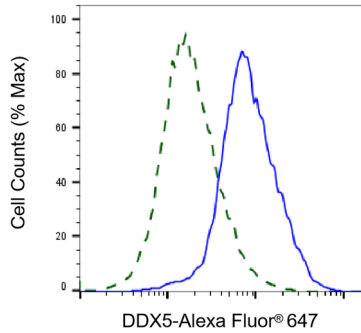
Immunohistochemistry was performed on paraffin-embedded human breast carcinoma using DDX5 antibody (KVA01584, 1:200). Antigen retrieval was done in sodium citrate buffer (pH 6.0). DAB was used for detection, with hematoxylin counterstaining. Images were acquired using a Nikon Ci-L Plus microscope (40× objective). Scale bar: 25 µm.



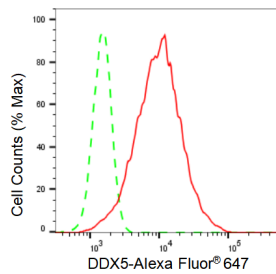
Immunocytochemical staining of HeLa cells using DDX5 antibody (KVA01584, 1:1,000). Top panel: wild-type (WT); Bottom panel: DDX5 shRNA knockdown (KD). Nuclei were stained blue with DAPI; DDX5 was stained magenta with Alexa Fluor® 647. Scale bar, 20 µm. Permeabilization: Triton.



Immunocytochemical staining of HepG2 cells with DDX5 antibody (KVA01584, 1:1,000). Nuclei were stained blue with DAPI; DDX5 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: High. Scale bar: 20 μ m.



Validation of DDX5 knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HeLa cells were stained with DDX5 antibody (KVA01584, 1:2,000) and analyzed using BD flow cytometer.



Flow cytometric analysis of DDX5 expression in HepG2 cells using DDX5 antibody (KVA01584, 1:2,000). Green, isotype control; red, DDX5.