

Rabbit DDX5 Polyclonal Antibody | anti-DDX5 antibody

Anti-DDX5 Antibody, Rabbit Polyclonal

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA254495	Rabbit	HumanPredicted to React with: Mouse (Species predicted to react based on 100% sequence homology)	Immunoprecipitation, Immunofluorescence, Immunocytochemistry, Western Blot

PRODUCT SYNONYMS

DDX5; Polyclonal Antibody; Anti-DDX5 Antibody; Rabbit Polyclonal; DDX5 Antibody; Rabbit PAb; Antigen Affinity Purified; DEAD (Asp-Glu-Ala-Asp) box helicase 5; Anti-G17P1 Antibody; Anti-HLR1 Antibody; Anti-HUMP68 Antibody; Anti-p68 Antibody; anti-DDX5 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human Predicted to React with: Mouse (Species predicted to react based on 100% sequence homology)
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Human DDX5
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-DDX5 antibody	IP (Immunoprecipitation), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Immunogen	A synthetic peptide corresponding to the C-terminus of the Human DDX5
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with a synthetic peptide corresponding to the C-terminus of the Human DDX5, and purified by antigen affinity chromatography.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.

IMAGES



IP (Immunoprecipitation)

DDX5 was immunoprecipitated using: Lane A: 0.5 mg PC-3 Whole Cell Lysate 4 uL anti-DDX5 rabbit polyclonal antibody and 15 uL of 50 % Protein G agarose. Primary antibody: Anti-DDX5 rabbit polyclonal antibody, at 1:100 dilution Secondary antibody: Dylight 800-labeled antibody to rabbit IgG (H+L), at 1:5000 dilution Developed using the odyssey technique. Performed under reducing conditions. Predicted band size: 69 kDa Observed band size: 69 kDa



IF (Immunofluorescence)

Immunofluorescence staining of DDX5 in HeLa cells. Cells were fixed with 4% PFA, permeabilized with 0.3% Triton X-100 in PBS, blocked with 10% serum, and incubated with rabbit anti-human DDX5 polyclonal antibody (1:1000) at 4 degree C overnight. Then cells were stained with the Alexa Fluor488-conjugated Goat Anti-rabbit IgG secondary antibody (green). Positive staining was localized to nucleus.



ADDITIONAL INFORMATION

Asp-Glu-Ala-Asp (DEAD)-box polypeptide 5 (DDX5), also called p68, is a prototypical member of the large ATP-dependent RNA helicases family and is known to participate in all aspects of RNA metabolism ranging from transcription to translation, RNA decay, and miRNA processing. The roles of DDX5 in cell cycle regulation, tumorigenesis, apoptosis, cancer development, adipogenesis, Wnt-beta-catenin signaling, and viral infection have been established. Fructose-bisphosphate aldolase A (ALDOA) and DEAD box p68 RNA helicase (DDX5) are commonly overexpressed in cancer and correlate with tumorigenesis. The DEAD box protein DDX5, an ATP-dependent RNA helicase, plays an important role in transcriptional regulation and is associated with solid tumors and leukemia. DDX5 in gastric cancer cell proliferation via the mTOR pathway, DDX5 may serve as a therapeutic target in gastric cancer. Treatment with resveratrol induced degradation of DDX5 in prostate cancer cells. Depletion of DDX5 caused apoptosis by inhibiting mammalian target of rapamycin complex 1 (mTORC1) signaling. Moreover, knockdown of DDX5 attenuated the inhibitory activities of resveratrol against mTORC1 signaling and cancer cell growth. which resveratrol directly targets DDX5 and induces cancer cell death by inhibiting the mTORC1 pathway. DDX5/p68 RNA helicase is a member of the DEAD (Asp-Glu-Ala-Asp) box proteins. Apart from RNA unwinding, DDX5 is an important transcriptional factor and co-activator in cell proliferation and differentiation. DDX5 as a crucial factor involved in the complex transcriptional cascade of events that regulate adipogenesis and essential to the initiation of adipogenesis.

NCBI GI #	4758138
NCBI GeneID	1655
NCBI Accession #	NP_004387.1
NCBI GenBank Nucleotide #	NM_004396.3
UniProt Accession #	P17844; O75681; Q53Y61; B5BU21; D3DU32
Molecular Weight	69,148 Da
NCBI Official Full Name	probable ATP-dependent RNA helicase DDX5
NCBI Official Synonym Full Names	DEAD (Asp-Glu-Ala-Asp) box helicase 5
NCBI Official Symbol	DDX5
NCBI Official Synonym Symbols	p68; HLR1; G17P1; HUMP68
NCBI Protein Information	probable ATP-dependent RNA helicase DDX5; DEAD box-5; RNA helicase p68; DEAD box protein 5; DEAD (Asp-Glu-Ala-Asp) box polypeptide 5; DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 5 (RNA helicase, 68kD)
UniProt Protein Name	Probable ATP-dependent RNA helicase DDX5
UniProt Gene Name	DDX5
UniProt Synonym Gene Names	G17P1; HELR; HLR1
UniProt Entry Name	DDX5_HUMAN

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