

Anti-DDX5 Antibody

Catalog # AP95798

Product Information

Application	WB, IHC, FC
Primary Accession	P17844
Reactivity	Human, Mouse, Mk
Host	Mouse
Clonality	Monoclonal
Calculated MW	69148

Additional Information

Gene ID	1655
Other Names	G17P1; HELR; HLR1; Probable ATP-dependent RNA helIC, ase DDX5; DEAD box protein 5; RNA helIC, ase p68
Target/Specificity	Recombinant fusion protein of human DDX5 expressed in E. Coli
Dilution	WB~~WB (1/500 - 1/1000) IHC~~1:100~500 FC~~FC (1/100 - 1/200)
Format	Mouse IgG2a. Liquid in PBS, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

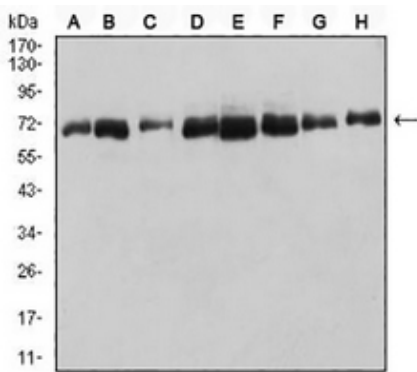
Name	DDX5
Synonyms	G17P1, HELR, HLR1
Function	Involved in the alternative regulation of pre-mRNA splicing; its RNA helicase activity is necessary for increasing tau exon 10 inclusion and occurs in a RBM4-dependent manner. Binds to the tau pre- mRNA in the stem-loop region downstream of exon 10. The rate of ATP hydrolysis is highly stimulated by single-stranded RNA. Involved in transcriptional regulation; the function is independent of the RNA helicase activity. Transcriptional coactivator for androgen receptor AR but probably not ESR1. Synergizes with DDX17 and SRA1 RNA to activate MYOD1 transcriptional activity and involved in skeletal muscle differentiation. Transcriptional coactivator for p53/TP53 and involved in p53/TP53 transcriptional response to DNA damage and p53/TP53-dependent apoptosis. Transcriptional coactivator for RUNX2 and involved in regulation of osteoblast differentiation. Acts as a transcriptional repressor in a promoter-specific manner; the function probably involves association with histone deacetylases, such as HDAC1. As component of a large PER complex is involved in the inhibition of 3' transcriptional termination of circadian target

genes such as PER1 and NR1D1 and the control of the circadian rhythms.

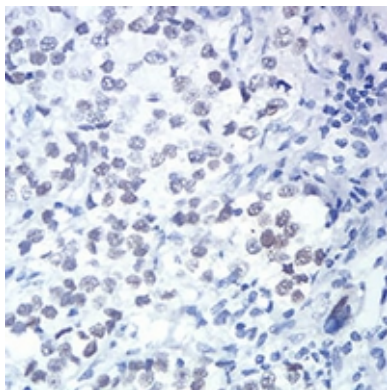
Cellular Location

Nucleus. Nucleus, nucleolus Nucleus speckle. Cytoplasm. Note=During the G0 phase, predominantly located in the nucleus. Cytoplasmic levels increase during the G1/S phase. During the M phase, located at the vicinity of the condensed chromosomes. At G1, localizes in the cytoplasm

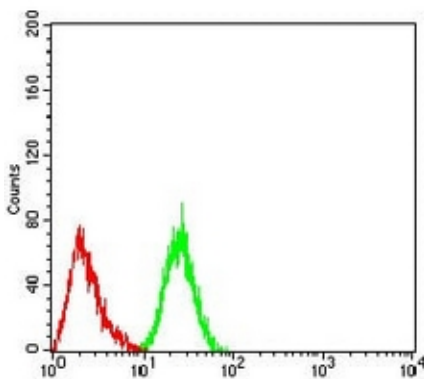
Images



Western blot analysis of DDX5 expression in HT29 (A), HeLa (B), NIH/3T3 (C), COS7 (D), SW620 (E), Jurkat (F), A431 (G), MCF7 (H) whole cell lysates. (Predicted band size: 69 kD; Observed band size: 72 kD)



Immunohistochemical analysis of DDX5 staining in human bladder cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Flow cytometric analysis of HeLa cells using Anti-DDX5 Antibody (green) and negative control (red).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.