

Anti-DDX5 (pY593) Antibody

Rabbit polyclonal antibody to DDX5 (pY593)
Catalog # AP60560

Product Information

| | |
|--------------------------|---------------------------|
| Application | WB, IF/IC, IHC |
| Primary Accession | P17844 |
| Other Accession | Q61656 |
| Reactivity | Human, Mouse, Rat, Monkey |
| Host | Rabbit |
| Clonality | Polyclonal |
| Calculated MW | 69148 |

Additional Information

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|---------------------------|--|
| Gene ID | 1655 |
| Other Names | G17P1; HELR; HLR1; Probable ATP-dependent RNA helicase DDX5; DEAD box protein 5; RNA helicase p68 |
| Target/Specificity | KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human DDX5. The exact sequence is proprietary. |
| Dilution | WB--WB (1/500 - 1/1000), IHC (1/100 - 1/200), IF/IC (1/100 - 1/500) IF/IC--N/A IHC--WB (1/500 - 1/1000), IHC (1/100 - 1/200), IF/IC (1/100 - 1/500) |
| Format | Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide. |
| Storage | Store at -20 °C. Stable for 12 months from date of receipt |

Protein Information

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|-----------------|--|
| 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.

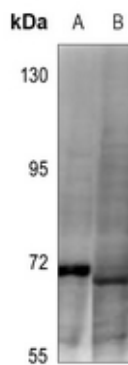
Cellular Location

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

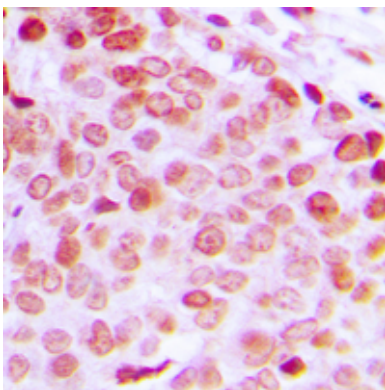
Background

KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human DDX5. The exact sequence is proprietary.

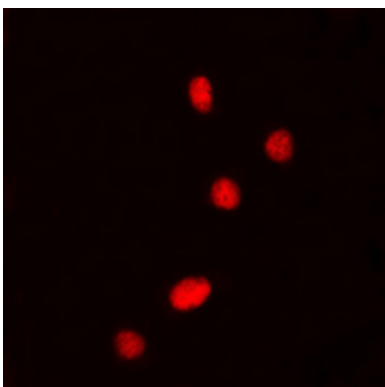
Images



Western blot analysis of DDX5 (pY593) expression in C6 (A), EC9706 (B) whole cell lysates.



Immunohistochemical analysis of DDX5 (pY593) staining in human prostate 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.



Immunofluorescent analysis of DDX5 (pY593) staining in HeLa cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a DyLight 594-conjugated secondary antibody (red) in PBS at room temperature in the dark.

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