

## DDX20 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant DDX20.

Catalog # AT1733a

### Product Information

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<b>Application</b>	IF, E
<b>Primary Accession</b>	<a href="#">Q9UHI6</a>
<b>Other Accession</b>	<a href="#">NM_007204</a>
<b>Reactivity</b>	Human
<b>Host</b>	mouse
<b>Clonality</b>	monoclonal
<b>Isotype</b>	IgG2a Kappa
<b>Clone Names</b>	5H5
<b>Calculated MW</b>	92241

### Additional Information

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<b>Gene ID</b>	11218
<b>Other Names</b>	Probable ATP-dependent RNA helicase DDX20, Component of gems 3, DEAD box protein 20, DEAD box protein DP 103, Gemin-3, DDX20, DP103, GEMIN3
<b>Target/Specificity</b>	DDX20 (NP_009135, 725 a.a. ~ 824 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
<b>Dilution</b>	IF~~1:50~200 E~~N/A
<b>Format</b>	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
<b>Storage</b>	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
<b>Precautions</b>	DDX20 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

### Background

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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 family are believed to be involved in embryogenesis, spermatogenesis, and cellular growth and division. This gene encodes a DEAD box protein, which has an ATPase activity and is a component of the survival of motor neurons (SMN) complex. This protein interacts directly with SMN, the spinal muscular atrophy gene product, and may play a catalytic role in the function of the SMN complex on RNPs.

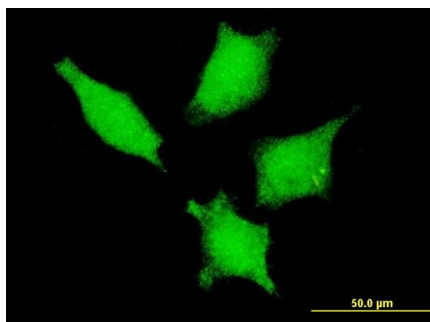
## References

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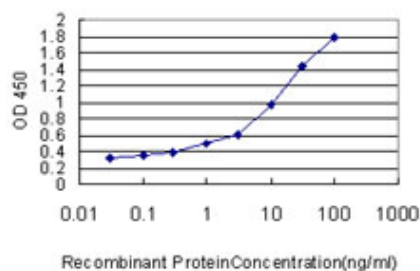
SMN, Gemin2 and Gemin3 associate with beta-actin mRNA in the cytoplasm of neuronal cells in vitro. Todd AG, et al. J Mol Biol, 2010 Sep 3. PMID 20620147. Role of primary miRNA polymorphic variants in metastatic colon cancer patients treated with 5-fluorouracil and irinotecan. Boni V, et al. Pharmacogenomics J, 2010 Jun 29. PMID 20585341. Black carbon exposures, blood pressure, and interactions with single nucleotide polymorphisms in MicroRNA processing genes. Wilker EH, et al. Environ Health Perspect, 2010 Jul. PMID 20211803. Mammalian BTBD12/SLX4 assembles a Holliday junction resolvase and is required for DNA repair. Svendsen JM, et al. Cell, 2009 Jul 10. PMID 19596235. Genetic variations in microRNA-related genes are novel susceptibility loci for esophageal cancer risk. Ye Y, et al. Cancer Prev Res (Phila), 2008 Nov. PMID 19138993.

## Images

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Immunofluorescence of monoclonal antibody to DDX20 on HeLa cell . [antibody concentration 10 ug/ml]



Detection limit for recombinant GST tagged DDX20 is approximately 0.3ng/ml as a capture antibody.

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