

**Mouse Monoclonal Antibody to DHX58**  
**Purified Mouse Monoclonal Antibody**  
**Catalog # AO2348a****Specification**

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**Mouse Monoclonal Antibody to DHX58 - Product Information**

Application	WB, FC, E
Primary Accession	<a href="#">O96C10</a>
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	Mouse IgG2b
Calculated MW	76.6kDa KDa

**Description**

DHX58 (DEXH (Asp-Glu-X-His) box polypeptide 58) is a protein-coding gene. GO annotations related to this gene include single-stranded RNA binding and helicase activity. An important paralog of this gene is IFIH1.;

**Immunogen**

Purified recombinant fragment of human DHX58 (AA: 479-678) expressed in E. Coli.

**Formulation**

Purified antibody in PBS with 0.05% sodium azide

**Application Note**

ELISA: 1/10000; WB: 1/500 - 1/2000; FCM: 1/200 - 1/400

**Mouse Monoclonal Antibody to DHX58 - Additional Information**

**Gene ID** 79132

**Other Names**

LGP2; RLR-3; D11LGP2; D11lgp2e

**Dilution**

WB~~1:1000

FC~~1:10~50

E~~N/A

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

Mouse Monoclonal Antibody to DHX58 is for research use only and not for use in diagnostic or therapeutic procedures.

**Mouse Monoclonal Antibody to DHX58 - Protein Information**

**Name** DHX58 ([HGNC:29517](#))

**Synonyms** D11LGP2E, LGP2

### Function

Acts as a regulator of RIGI and IFIH1/MDA5 mediated antiviral signaling. Cannot initiate antiviral signaling as it lacks the CARD domain required for activating MAVS/IPS1-dependent signaling events. Can have both negative and positive regulatory functions related to RIGI and IFIH1/MDA5 signaling and this role in regulating signaling may be complex and could probably depend on characteristics of the infecting virus or target cells, or both. Its inhibitory action on RIG- I signaling may involve the following mechanisms: competition with RIGI for binding to the viral RNA, binding to RIGI and inhibiting its dimerization and interaction with MAVS/IPS1, competing with IKBKE in its binding to MAVS/IPS1 thereby inhibiting activation of interferon regulatory factor 3 (IRF3). Its positive regulatory role may involve unwinding or stripping nucleoproteins of viral RNA thereby facilitating their recognition by RIGI and IFIH1/MDA5. Involved in the innate immune response to various RNA viruses and some DNA viruses such as poxviruses and coronavirus SARS-CoV-2, and also to the bacterial pathogen *Listeria monocytogenes* (PubMed:<a href="http://www.uniprot.org/citations/31256877" target="\_blank">31256877</a>). Can bind both ssRNA and dsRNA, with a higher affinity for dsRNA. Shows a preference to 5'-triphosphorylated RNA, although it can recognize RNA lacking a 5'-triphosphate.

### Cellular Location

Cytoplasm.

### Tissue Location

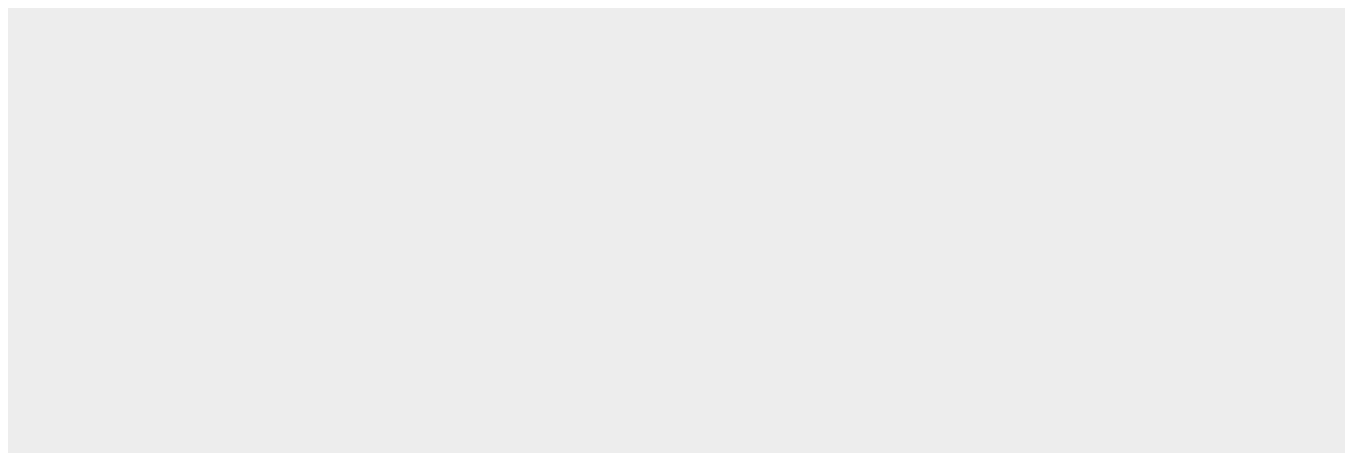
Expressed in testis, nerve and spleen. Also expressed in the brain.

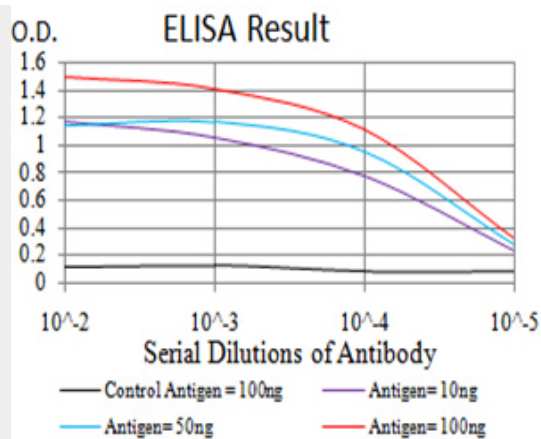
## Mouse Monoclonal Antibody to DHX58 - Protocols

Provided below are standard protocols that you may find useful for product applications.

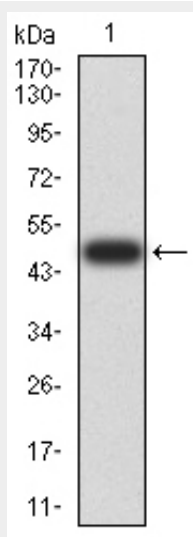
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## Mouse Monoclonal Antibody to DHX58 - Images

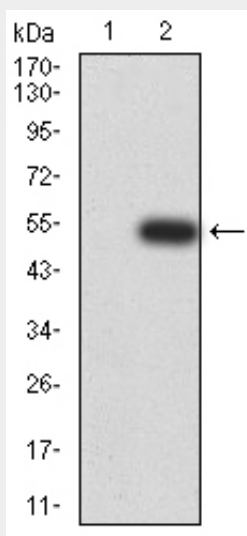




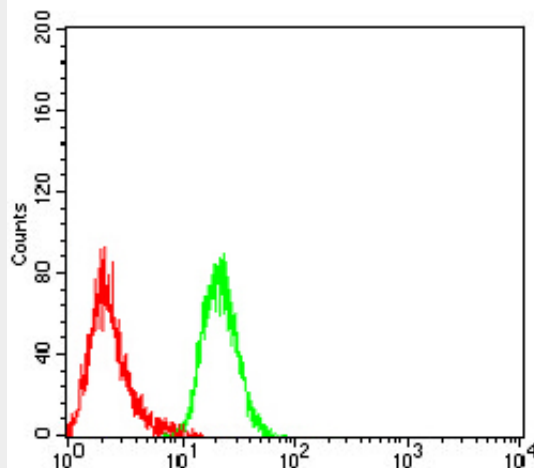
Black line: Control Antigen (100 ng); Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line: Antigen (100 ng)



Western blot analysis using DHX58 mAb against human DHX58 (AA: 479-678) recombinant protein. (Expected MW is 48.7 kDa)



Western blot analysis using DHX58 mAb against HEK293 (1) and DHX58 (AA: 479-678)-hIgGFc transfected HEK293 (2) cell lysate.



Flow cytometric analysis of Hela cells using DHX58 mouse mAb (green) and negative control (red).

#### **Mouse Monoclonal Antibody to DHX58 - References**

1. J Biol Chem. 2009 May 15;284(20):13881-91. ; 2. J Biol Chem. 2008 Jun 6;283(23):15825-33.;