

## Product datasheet for **TA370677**

### **DHX58 Rabbit Polyclonal Antibody**

#### **Product data:**

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	WB: 500-2000 WB positive control: Rat liver tissue lysate IHC: 50-100 Positive control: Human liver cancer Predicted cell location: Cytoplasm
Reactivity:	Human, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Fusion protein of human DHX58
Formulation:	pH7.4 PBS, 0.05% NaN <sub>3</sub> , 40% Glycerol
Concentration:	lot specific
Purification:	Antigen affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C.
Stability:	1 year
Predicted Protein Size:	77 kDa
Gene Name:	DEXH-box helicase 58
Database Link:	<a href="#">Entrez Gene 79132 Human Q96C10</a>



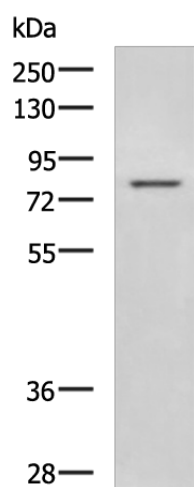
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**Background:**

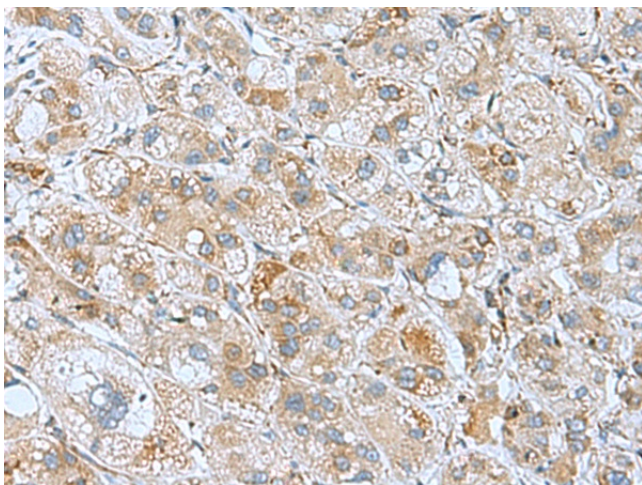
Acts as a regulator of DDX58/RIG-I and IFIH1/MDA5 mediated antiviral signaling. Cannot initiate antiviral signaling as it lacks the CARD domain required for activating MAVS/IPS1-dependent signaling events. Can have both negative and positive regulatory functions related to DDX58/RIG-I and IFIH1/MDA5 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 DDX58/RIG-I signaling may involve the following mechanisms: competition with DDX58/RIG-I for binding to the viral RNA, binding to DDX58/RIG-I 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 DDX58/RIG-I and IFIH1/MDA5. Involved in the innate immune response to various RNA viruses and some DNA viruses such as poxviruses, and also to the bacterial pathogen *Listeria monocytogenes*. 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.

**Synonyms:**

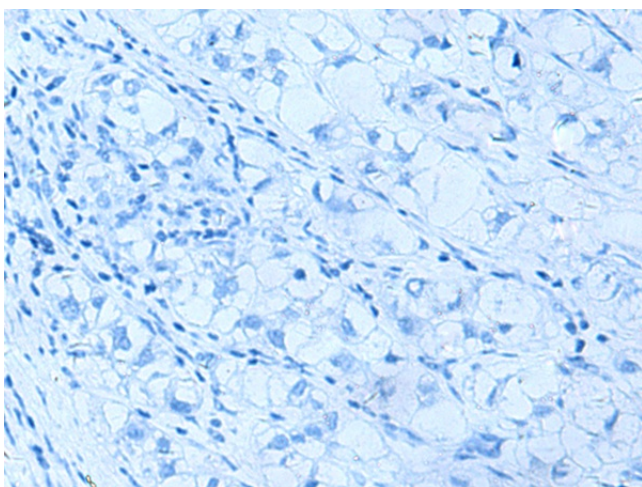
D11LGP2; D11LGP2E; LGP2; RLR

**Product images:**

Gel: 8%SDS-PAGE  
Lysate: 40 µg  
Lane: Rat liver tissue lysate  
Primary antibody: TA370677 (DHX58 Antibody) at dilution 1/800  
Secondary antibody: Goat anti rabbit IgG at 1/5000 dilution  
Exposure time: 4 minutes



Immunohistochemistry of paraffin-embedded Human liver cancer tissue using TA370677 (DHX58 Antibody) at dilution 1/60 (Original magnification:  $\times 200$ )



Immunohistochemistry of paraffin-embedded Human liver cancer tissue using TA370677 (DHX58 Antibody) at dilution 1/60, treated with fusion protein. (Original magnification:  $\times 200$ )