Recombinant Human DHX58

Catalog No: #GP13447

Package Size: #GP13447-1 100ug

Description

Product Name	Recombinant Human DHX58
Brief Description	Recombinant Protein
Immunogen Description	Fusion protein corresponding to a region derived from 479-678 amino acids of human DHX58
Target Name	DExH-box helicase 58
Other Names	LGP2; RLR-3; D11LGP2; D11lgp2e
Accession No.	Swissprot:Q96C10Gene Accession:BC014949
Uniprot	Q96C10
GeneID	79132;
Storage	-20~-80°C, pH 7.6 PBS

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.

References

Note: For in vitro research use only, not for diagnostic or therapeutic use. This product is not a medical device.

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