

Datasheet for ABIN6139609
anti-DHX58 antibody (AA 389-678)[Go to Product page](#)

2 Images

Overview

Quantity:	100 µL
Target:	DHX58
Binding Specificity:	AA 389-678
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This DHX58 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF)

Product Details

Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 389-678 of human DHX58 (NP_077024.2).
Sequence:	QQQGLQTVDI RAQLLIGAGN SSQSTHMTQR DQQEVQKFQ DGTLLNLLVAT SVAEEGLDIP HCNVVVRYGL LTNEISMVQA RGRARADQSV YAFVATEGSR ELKRELINEA LETLMEQAVA AVQKMDQAEY QAKIRDLQQA ALTKRAAQAA QRENQRQQFP VEHVQLLCIN CMVAVGHGSD LRKVEGTHHV NVNPNFSNYY NVSRDPVVIN KVFKDWKPGG VISCRCNCGEV WGLQMIYKSV KLPVLKVRSM LLETPQGRIQ AKKWSRVPFS VPDFDFLQHC AENLSDLSLD
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Polyclonal Antibodies
Purification:	Affinity purification

Target Details

Target:	DHX58
Alternative Name:	DHX58 (DHX58 Products)
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 coronavirus SARS-CoV-2, and also to the bacterial pathogen <i>Listeria monocytogenes</i> . 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.,DHX58,D11LGP2,D11Lgp2e,LGP2,RLR-3,Epigenetics & Nuclear Signaling,Immunology & Inflammation,DHX58
Molecular Weight:	76 kDa
Gene ID:	79132
UniProt:	Q96C10

Application Details

Application Notes:	WB,1:500 - 1:2000,IF,1:50 - 1:200
Restrictions:	For Research Use only

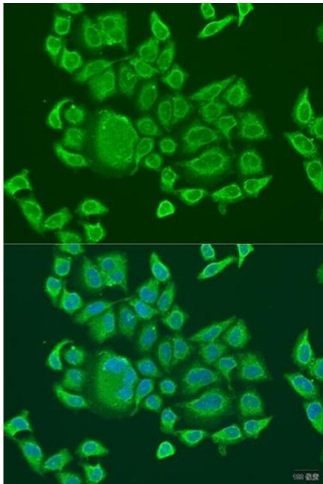
Handling

Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling

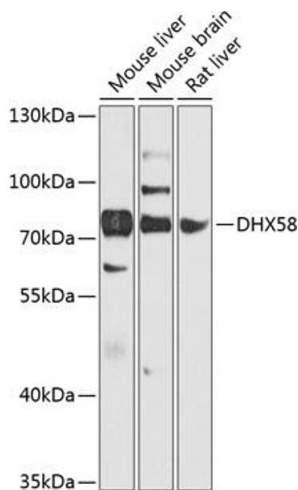
Storage:	-20 °C
Storage Comment:	Store at -20°C. Avoid freeze / thaw cycles.

Images



Immunofluorescence

Image 1. Immunofluorescence analysis of U2OS cells using DHX58 antibody (ABIN6129372, ABIN6139609, ABIN6139610 and ABIN6224272) at dilution of 1:100. Blue: DAPI for nuclear staining.



Western Blotting

Image 2. Western blot analysis of extracts of various cell lines, using DHX58 antibody (ABIN6129372, ABIN6139609, ABIN6139610 and ABIN6224272) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3 % nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 60s.