

DDX60 Antibody

Catalog # ASC11514

Product Information

Application	WB, IF, E
Primary Accession	Q8IY21
Other Accession	NP_060101 , 222831595
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	197853
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	DDX60 antibody can be used for detection of DDX60 by Western blot at 1 - 2 μ g/mL. For immunofluorescence start at 20 μ g/mL.

Additional Information

Gene ID	55601
Other Names	Probable ATP-dependent RNA helicase DDX60, 3.6.4.13, DEAD box protein 60, DDX60
Target/Specificity	DDX60; At least three isoforms of DDX60 are known to exist; this antibody will detect all three isoforms.
Reconstitution & Storage	DDX60 antibody can be stored at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Precautions	DDX60 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	DDX60
Function	Positively regulates RIGI- and IFIH1/MDA5-dependent type I interferon and interferon inducible gene expression in response to viral infection. Binds ssRNA, dsRNA and dsDNA and can promote the binding of RIGI to dsRNA. Exhibits antiviral activity against hepatitis C virus and vesicular stomatitis virus (VSV). Selectively reduces infectious titers of viruses that depend on type II IRES-mediated translation by modulating ribosome occupancy on type II IRES-containing viral mRNAs, without affecting type I IRES-mediated translation (PubMed: 36256515).

Cellular Location	Cytoplasm.
Tissue Location	Brain, lymph node, prostate, stomach, thyroid, tongue, trachea, uterus, skeletal muscle, spleen, kidney, liver and small intestine.

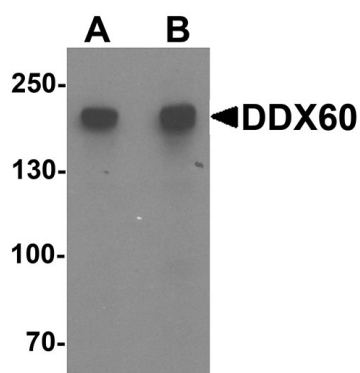
Background

DDX60 Antibody: DDX60 is a DEXD/H Box RNA helicase and the human homolog of the *S. cerevisiae* Ski2, a cofactor of RNA exosome. Expression of DDX60 increases after viral infection and binds to endogenous RIG-I, a cytoplasmic viral RNA sensor, as well as other RIG-I-like receptors such as MDA5 and LGP2. These proteins activate TBK1 and IKK- ϵ , signaling IRF3 and NF- κ B-responsive genes in the innate immune response pathway. DDX60 is required for the RIG-I- or MDA5-dependent response to viral infection, but is dispensable for TLR3-mediated signaling.

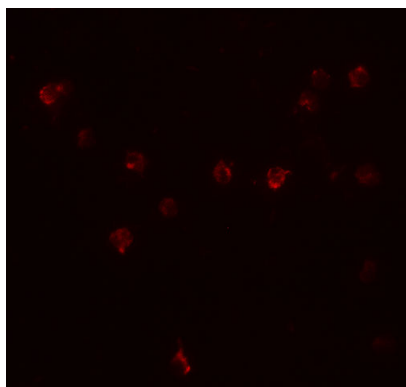
References

Miyashita M, Oshiumi H, Matsumoto M, et al. DDX60, a DEXD/H box helicase, is a novel antiviral factor promoting RIG-I-like receptor-mediated signaling. *Mol. Cell. Biol.* 2011; 31:3802-19.

Images



Western blot analysis of DDX60 in A20 cell lysate with DDX60 antibody at (A) 1 and (B) 2 μ g/mL.



Immunofluorescence of DDX60 in A20 cells with DDX60 antibody at 20 μ g/mL.

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